



FINAL Phase III Investigation Report

Petronila Creek Nueces County, Texas



Prepared for:

**Railroad Commission of Texas
Oil and Gas Division
Site Remediation and Special Response**

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April 2008

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1.0 INTRODUCTION

This report documents the Phase III investigation activities completed along Petronila Creek located in Nueces County, Texas. The Phase III investigation focused on the North Clara Driscoll and Clara Driscoll Oil Fields which are located near Driscoll, Texas.

1.1 Site Background

The Total Maximum Daily Load (TMDL) Section of the Texas Commission on Environmental Quality (TCEQ) placed Segment 2204 (Petronila Creek) on the State's 303(d) list because it does not meet water quality standards due to high salinity. Segment 2204 includes the entire length of Petronila Creek, which begins at the confluence of Agua Dulce Creek and Banquete Creek in Nueces County and continues approximately 70 kilometers (km) to Laureles Ranch in Kleberg County. A site location map is presented as Figure 1.

The Railroad Commission of Texas (RRC) applied for a non-point source grant prompted by TCEQ data that indicated chloride and total dissolved solids (TDS) content in Petronila Creek increased significantly between Gauging Station 13098 (located at United States Highway 77 [US 77]) and Gauging Station 13096 (located downstream of the Clara Driscoll oil field). The RRC was awarded the United States Environmental Protection Agency (USEPA) grant distributed through the TCEQ to determine if oil and gas operations along Petronila Creek are contributing to the high salinity of the water. The overall objective of the project is to determine the source(s) leading to the elevated TDS and chloride in Petronila Creek and to develop best management practices (BMPs) designed to reduce salt load in the creek.

As part of the TCEQ TMDL project, an airborne geophysical survey, supporting ground-based measurements, and surface water analyses of Petronila Creek (Segment 2204) were conducted by the University of Texas, Bureau of Economic Geology (BEG) for the TCEQ. According to the BEG report, geophysical data and chemical analyses suggest that the sources of salinity in Petronila Creek between US 77 and the estuarine-influenced zone include brine produced from local oil fields (North Clara Driscoll, Clara Driscoll, and Luby) some of which was discharged into ditches (referred to as tidal disposal) before the RRC ended that practice in 1987 and/or discharged into pits before the RRC's no pit order was implemented in 1969. Airborne geophysical data suggest that there are extensive areas of salinization between the drainage ditches and Petronila Creek that may provide continuing sources of salinity along the Driscoll, Concordia, and Luby segments of Petronila Creek. The Luby Field area, which is at the downstream limit of the survey area, is not included in this RRC investigation because the BEG has indicated the area coincides with the zone of estuarine mixing (i.e., this portion of the study area also contains naturally-occurring salinity from tidal influence).

1.2 Previous Site Investigation Activities

Three field investigations were conducted between May 2006 and April 2007 prior to completion of the Phase III investigation as summarized below:

- May 2006: Conducted site reconnaissance and initiated records review
- August 2006: Submitted *Records Review, Site Reconnaissance Results, and Recommendations* report to RRC
- February 2007: Conducted Seasonal Water Monitoring event
- March-April 2007: Conducted Cone Penetrometer Testing (CPT) Investigation and Soil Sampling Event
- August 2007: Submitted *Draft Interim Technical Memorandum for Petronila Creek* report to RRC

The scope of work completed during the Phase III investigation was based on the results and recommendations presented in the previous reports.

1.3 Investigation Objectives

The objectives of the Phase III investigation were to gather additional data to determine the source(s) leading to elevated TDS and chloride in Petronila Creek, and to develop BMPs to reduce the salt load in the creek. This information will be used to design BMPs to reduce salinity contributions to Petronila Creek from impacted groundwater.

1.4 Report Contents

This Phase III Investigation Report summarizes the site investigation field methods, details the field activities performed, presents the results of the site investigation, and provides conclusions and recommendations for the next step in developing BMPs to address impacted groundwater at the site.

2.0 INVESTIGATION METHODS

TRC conducted Phase III site investigation activities along Petronila Creek from June 2007 through December 2007. The investigation was conducted in accordance with the following documents:

- *Final Field Investigation Work Plan, Petronila Creek Phase III Investigation* (TRC, 2007a) submitted to the RRC by TRC in May 2007.
- *Draft Interim Technical Memorandum for Petronila Creek* (TRC, 2007b) submitted to the RRC by TRC in August 2007.
- *Investigation of Increased Salinity Along Petronila Creek (Segment 2204) Quality Assurance Project Plan – Revision 1* (RRC, 2007) submitted by the RRC to the TCEQ and USEPA in February 2007, and approved April 24, 2007.

The field investigation consisted of the following tasks: (1) seasonal water monitoring including surface water sampling, stream flow measurements and gauging; (2) groundwater investigation including monitoring well installation, synoptic well and creek gauging, and groundwater sampling of the monitoring wells; (3) surveying wells and stream gauging stations; and (4) managing investigation-derived waste (IDW).

The field investigation tasks were completed in general accordance with the Work Plan and QAPP with the following variances:

- Monitoring wells P-MW-13, P-MW-14 and P-MW-15 could not be installed at the proposed oil field waste land location because the landowner restricted access. This area had the highest CPT data. The wells were re-located about 2,000 feet to the northwest.
- The work plan indicated that two soil samples from each soil boring would be submitted for laboratory analysis. At a majority of the nested (adjacent) monitoring well locations, the two soil samples were submitted for laboratory analysis from only one boring location because the wells were located in close proximity to each other.
- During the week of October 1, 2007, all of the monitoring wells except P-MW-3 were developed and sampled. Due to wet ground conditions, the well could not be accessed. Well P-MW-3 was developed and sampled during the week of October 22, 2007.

- Stream flow measurements could not be collected before and after the confluence of the drainage ditches and Petronila Creek because steep topography and heavy vegetation cover limited access on these areas.
- A surface water sample could not be collected from Petronila Creek segment 16 during the October 2007 seasonal water monitoring event due to property access restrictions.
- The elevation at stream gauging station SG-15 was not surveyed during October 2007 due to human error. Therefore, the stream gauging data collected from SG-15 cannot be used for contouring until the location is surveyed.

2.1 Seasonal Water Monitoring

Seasonal water monitoring was conducted during October 2007 and consisted of collecting stream flow measurements at three locations along Petronila Creek and sampling surface water at seven locations along Petronila Creek, two locations along the North Clara Driscoll drainage ditch, and three locations along the Clara Driscoll drainage ditch along County Road 18 (CR 18). A summary of the seasonal sample locations, sample identifications, sample dates, and laboratory analyses are presented in Table 1. The following sections describe the seasonal water monitoring activities completed during the Phase III Investigation activities.

2.1.1 Stream Flow and Gauging Measurements

On October 24 and 25, 2007, stream flow and gauging measurements were collected at Petronila Creek gauging stations SG-02 (US 77 bridge), SG-11 (FM 665 bridge), and SG-15 (CR 18 bridge). The locations of the gauging stations are presented in Figure 2. Stream flow measurements and calculated discharge rates were recorded on the Stream Flow Measurement Form. Copies of these field forms are located in Appendix A.

Stream gauging stations were located at three bridge crossings to determine the surface water elevations (stage) along Petronila creek. Measurements were collected from a surveyed point located on top of the bridge concrete guardrail. A measuring tape was lower to the top of the water in the creek and the length was recorded in the field book. The creek elevations were calculated by subtracting the distance to top of the water from the survey point elevation. Copies of gauging results are presented in the field notes located in Appendix A.

2.1.2 Surface Water Sampling

On October 25, 2007, a total of 12 surface water samples were collected from Petronila Creek and the drainage ditches. A total of seven samples were collected from Petronila Creek at

segments 2, 6, 11, 14, 19, 25, and 33. Two samples were collected from the North Clara Driscoll drainage ditch at locations P-D-01 and P-D-02, and three samples from the Clara Driscoll drainage ditch at locations P-D-06, P-D-07, and P-D-09. Surface water sample locations are depicted in Figure 2.

2.2 Groundwater Investigation

A groundwater investigation was completed along Petronila Creek to evaluate potential impacts to groundwater from historical oil field activities. A summary of the groundwater sample locations, sample identifications, sample dates, and laboratory analyses are presented in Table 2. The following sections describe the groundwater investigation activities completed to date.

2.2.1 Soil Borings

A total of twenty-two borings (P-SB-01 through P-SB-22) were completed between June 28, 2007, and July 14, 2007. The boring locations were chosen based on previously collected data, the project objectives, the location of sources and potentially impacted areas, the location of underground and aboveground utilities, physical access, and property access.

Soil borings were completed using a Roto-Sonic drilling rig. Continuous soil samples were collected from each borehole using a solid core barrel. The soil was described based on lithology, moisture content, and notable presence of impacts including hydrocarbon staining/odors and presence of salt crystals. The lithologic description was done in accordance with ASTM Standard D 2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). A summary of the soil sample locations, sample identifications, sample dates, and laboratory analyses are presented in Table 3. The soil boring/monitoring well completion logs are presented in Appendix B.

2.2.2 Monitoring Well Installation

The soil borings were converted to groundwater monitoring wells (P-MW-01 through P-MW-22). Two-inch diameter poly-vinyl chloride (PVC) wells were installed using a Roto-Sonic drilling rig. The soil boring/monitoring well completion logs are presented in Appendix B. The wells were developed using a disposable PVC bailer or a submersible pump. The well development forms are included in Appendix A.

Of the 22 wells installed, 11 were installed as shallow wells (P-MW-03, PMW-06, P-MW-09, PMW-10, P-MW-11, PMW-12, P-MW-15, PMW-16, P-MW-19, PMW-21, P-MW-22) with total depths ranging from 18 to 26 feet below ground surface (bgs). To evaluate

vertical groundwater gradients and groundwater quality at different depth intervals, six intermediate wells (P-MW-02, PMW-05, P-MW-08, PMW-14, P-MW-18, PMW-20) and five deep wells (P-MW-01, PMW-04, P-MW-07, PMW-13, P-MW-17) were installed in nested configurations adjacent to shallow wells. One of the nested well sets included an intermediate well (P-MW-02) and a deep well (P-MW-01) installed adjacent to existing El Paso Merchant Company (El Paso) shallow monitoring well MW-27 located at the Driscoll #3 release site. The intermediate and deep wells were installed to total depths ranging from 39 to 43 feet bgs and 51 to 61 feet bgs, respectively. As shown on Figure 2, a total of five locations (P-MW-01/02/D3-MW-27, P-MW-04/05/06, PMW-07/08/09, PMW-13/14/15, PMW-17/18/19) are nested with three depth intervals and one location (P-MW-20/21) is nested with shallow and intermediate intervals.

2.2.3 Well and Stream Gauging

Groundwater level measurements were collected from monitoring wells and stream gauging stations using an oil/water interface probe on October 1-3, 2007, October 24, 2007, and December 6, 2007. Table 4 presents the monitoring well information including ground elevation, top of well casing elevation, water level measurement (date of measurement, depth to water, and total depth), and calculated water elevation. These data were used to determine the groundwater flow direction and gradient.

2.2.4 Groundwater Sampling

On October 2-4, 2007, and October 26, 2007, groundwater sampling was conducted at the 22 monitoring wells installed during the Phase III investigation activities and two existing El Paso monitoring wells (MW-12 at Driscoll #2 release site and MW-27 at Driscoll #3 release site). The sampling was performed in accordance with the work plan and the QAPP. Samples were collected using disposable PVC bailers or peristaltic pumps. Low flow/stress sampling techniques were used when sampling with the peristaltic pumps. The groundwater quality parameters were documented on the field sampling forms presented in Appendix A. DHL Analytical (DHL) laboratory reports from the groundwater sampling events are included in Appendix C.

2.3 Surveying

Upon completion of the monitoring well drilling, a survey was conducted during October 2007 by Frontier Surveying Company (Frontier) of Corpus Christi, Texas. A coordinate and elevation survey of the new wells was completed using a Trimble 5800 GPS unit. The ground and top-of-casing elevation at the 22 recently installed monitoring wells, two existing El Paso monitoring wells, and two stream gauging stations (SG-02 and SG-11) were surveyed to

an accuracy of 0.01 feet using local benchmarks. Copies of the Frontier survey notes and coordinates/elevations are included in Appendix D.

2.4 Investigation-Derived Waste Management

IDW generated during the investigation included soil cuttings, decontamination fluids, development water, and purge water. If soil cuttings did not exhibit evidence of contamination, the material was thin spread on the property immediately surrounding the well. Soil cuttings exhibiting contamination during well installation were placed in 55-gallon drums for disposal. Additionally, at the request of El Paso, all soil cuttings generated on property owned by El Paso at the time the wells were installed were placed in 55-gallon drums for disposal. The water from well development, groundwater sampling, and decontamination was temporarily stored in a 4,000-gallon poly tank on the Driscoll Foundation Property. All IDW was removed from the site in October 2007. The drums with soil cuttings were removed from the site by Miller Environmental Services Inc. of Corpus Christi, Texas, and transported to the Eco Mud Disposal facility located in Alice, Texas. The IDW water was removed from the poly tank and disposed of by MoVac Environmental located in Alice, Texas.

3.0 SITE GEOLOGY/HYDROGEOLOGY

This section presents the geologic and hydrogeologic information near the Petronila Creek area in Nueces County, Texas.

3.1 Geology

Based on the BEG Geologic Atlas of Texas, Corpus Christi Sheet, presented in Figure 3, the Quaternary alluvium deposits and the Beaumont Formation are the only geologic units in direct contact with Petronila Creek in the Driscoll and Concordia areas (BEG, 1975). The Beaumont Formation consists of mostly clay, silt, sand, and gravel, includes mainly stream channel, point bar, natural levee, and backswamp deposits, and has a thickness of ± 100 feet.

The subsurface lithology was interpreted to a maximum depth of approximately 61 feet bgs based on 36 CPT borings (P-CPT-01 through P-CPT-36) and 22 soil borings/monitoring wells (P-MW-01 through P-MW-22). The location of the two geologic cross-section lines are presented in Figure 2, and the geologic cross sections are presented as Figure 4. The lithology consists of sandy clay and/or silt from grade to an approximate elevation of 40 feet above mean sea level (amsl), or approximately the upper 10 to 15 feet. The lithology below 40 feet amsl consists of laterally continuous and discontinuous silty sand lenses within a matrix of sandy clay and/or silt. The sand lenses are generally 5 to 15 feet thick and appear to be more continuous and thicker to the southeast towards Baffin Bay and the Gulf of Mexico. The lithology is consistent with a fluvial depositional environment and is representative of the Beaumont Formation.

The lithology shown on the cross sections (Figure 4) combines automated data from a CPT rig (labeled P-CPT) with manually interpreted data from soil boring samples (P-MW). The data from these two methods have not been fully correlated and normalized. This is recommended during the next phase of the project as it is critical to determine the three-dimensional location of these higher permeability sandy lenses, which may contribute salinity to the creek at a higher rate than the surrounding clay/silt sediments.

3.2 Hydrogeology

The principal water-bearing units in Nueces County are the Goliad Sand, Lissie Formation, and Beaumont Clay (combined as the Gulf Coast Aquifer). These units crop out in belts that trend northeast to southwest (i.e., parallel to the coastline) and dip to the southeast at an angle greater than the slope of the land surface. Most of these units become thicker and finer-grained downdip. The deposits are generally lenticular where the lenses of clay, sand, or gravel pinch out or grade into each other within short distances. Groundwater flows southeastward toward the Gulf of Mexico and occurs under unconfined and confined conditions (TWDB, 1968).

The Gulf Coast Aquifer as defined by the TWDB is separated into two aquifers; the Chicot and Evangeline. The Chicot is the youngest aquifer in the Coastal Plain of Texas, which encompasses the Beaumont Clay of Pleistocene age and any overlying Holocene alluvium in Nueces County. The Evangeline is composed of the Goliad Formation in Nueces County. The study area is within the Chicot Aquifer.

The monitoring wells are screened within the clay/silt formation, the sand lenses, or both. All of the wells produced groundwater, which is indicative of unconfined saturated conditions from the top of the potentiometric surface to at least 61 feet bgs (deepest well). Although soil samples of the clay were not obviously saturated based on field observations, the fact these wells produced water indicates the clay is saturated. The depth to groundwater (i.e., top of potentiometric surface) was at 6 to 17 feet bgs. Groundwater elevations were deeper than 17 feet bgs at P-MW-2 and P-MW-17 in October 2007 and P-MW-2 and P-MW-3 in December 2007; this is attributed to slow recharge from the clay rather than natural conditions. The data collected during purging (Appendix A) indicated that 17 of the 22 groundwater monitoring wells bailed dry during the October 2007 sampling event. The low yield is attributed to the low hydraulic conductivity of the clay.

Shallow groundwater flow is locally towards Petronila Creek and regionally to the southeast with a gradient of approximately 0.001 feet/foot. A groundwater potentiometric surface map for the December 2007 gauging event is presented as Figure 5. The groundwater elevations for the intermediate and deep wells indicate a southeasterly groundwater flow direction, which is consistent with the regional trend. The data for well P-MW-02 is excluded due to slow recharge. The groundwater elevations are posted on Figure 5. The groundwater and creek elevations are provided in Table 4.

Vertical groundwater gradients were evaluated for the six nested well sets. The data indicate an upward vertical gradient at P-MW-04/05/06, P-MW-13/14/15, and P-MW-20/21, and a downward vertical gradient at P-MW-01/02/D3-MW-27, P-MW-07/08/09, and P-MW-17/18/19. These data are inconclusive due to the inconsistent data (some upward and some downward) and the wells being screened in different units (clay versus sand). The groundwater elevations in the vertical plane are shown on Figure 4.

The additional lithologic evaluation recommended in Section 3.1 will provide a better three-dimensional picture of hydrogeology including possible insight regarding the vertical gradients and the continuity of the higher permeability sand lenses. Additional gauging events should be conducted to evaluate groundwater conditions under different seasonal/rainfall conditions especially considering the heavy rainfall in late summer 2007, and to monitor recharge of certain wells.

4.0 INVESTIGATION RESULTS

This section presents the analytical results and field measurements collected during seasonal water monitoring, soil boring completion, and groundwater monitoring. These data were collected during the investigation activities in order to achieve the objectives discussed in Section 1.2.

4.1 Surface Water

The surface water elevations measured during October and December 2007 and the analytical results from seasonal sampling events conducted in October 2007 are presented in Tables 4 and 1, respectively. The following sections discuss the results of the seasonal water monitoring.

4.1.1 Stream Flow and Gauging Measurements

Stream flow measurements could not be collected in October 2007 at Petronila Creek segments 2, 11, and 15 because the flow velocity of the creek was below the measuring range of the instrument. Therefore, discharge rates at the three stations could not be calculated.

Surface water elevations along Petronila Creek were calculated for gauging stations SG-02 and SG-11 based on the gauging measurements performed on October 24, 2007 and December 6, 2007. As illustrated in Figure 4, surface water elevations in Petronila Creek are lower than groundwater elevations in the monitoring wells located near the creek, which indicates groundwater flow to a gaining creek (i.e., the creek is a discharge zone). The surface water elevations are presented in Table 4. Because surface water located in Petronila Creek is hydraulically connected to shallow groundwater, the surface water elevations were used to contour the groundwater potentiometric map presented as Figure 5.

4.1.2 Surface Water Sampling

Surface water quality parameters including temperature, conductivity, pH, TDS, and oxidation-reduction potential (ORP) were documented in the project field book during sampling and are presented in Appendix A. The water samples were submitted for laboratory analysis of complete salinity, which included analysis for pH, conductivity, chloride, bromide, sulfate, nitrate, calcium, sodium, magnesium, potassium, iron, barium, carbonate, bicarbonate, and TDS. The surface water sample locations are shown on Figure 2. The analytical results for the October 2007 surface water sampling event are presented on Table 1 and summarized below.

During the summer of 2007, south Texas, including the project area, received a significant amount of precipitation as compared to average rainfall. A majority of this

precipitation (approximately 30 inches) occurred between June and September 2007. Flooding was observed along the banks of Petronila Creek and within the project area during this time, which caused the project to be delayed for approximately 3 months. Surface water sampling was postponed until October 2007 when normal flow conditions were present so that the analytical results would not be affected by dilution in the creek from surface water runoff.

The October 2007 surface water results for Petronila Creek indicate a sharp increase in salinity between creek segments 2 and 6, a slight increase in salinity between creek segments 6 and 19, and a moderate decrease in salinity between creek segments 19 and 33. Chloride concentrations ranged from 472 mg/L at creek segment 2 to 6,960 mg/L at creek segment 19, TDS concentrations ranged from 1,300 mg/L at creek segment 2 to 14,400 mg/L at creek segment 19, and sulfate concentrations ranged from 173 mg/L at creek segment 2 to 1,290 mg/L at creek segment 14. The concentration fluctuations for chloride, sulfate, sodium, calcium, TDS, conductivity, alkalinity, magnesium, bromide, and potassium along Petronila Creek for February 2007 and October 2007 are presented in Appendix E.

The October 2007 surface water results from the North Clara Driscoll drainage ditch indicated a salinity increase between sample locations P-D-02 and P-D-01. Chloride concentrations increased from 1,200 mg/L to 16,200 mg/L, TDS concentrations increased from 4,260 to 31,600 mg/L, and sulfate concentrations increased from 1,370 mg/L to 2,780 mg/L between these two locations.

The October 2007 surface water results from the Clara Driscoll drainage ditch along CR 18 indicated a salinity increase between sample locations P-D-06 and P-D-07 and a moderate decrease between P-D-07 and P-D-09. Chloride concentrations ranged from 2,430 mg/L at P-D-06 to 24,200 mg/L at P-D-07, TDS concentrations ranged from 5,200 mg/L at P-D-06 to 47,400 mg/L at P-D-07, and sulfate concentrations ranged from 751 mg/L at P-D-06 to 2,790 mg/L at P-D-09.

The October 2007 surface water results indicate a notable increase in concentrations as compared with the February 2007 results (Appendix E). The maximum chloride concentrations from Petronila Creek, the North Clara Driscoll drainage ditch, and the Clara Driscoll drainage ditch increased from 3,010 mg/L, 6,880 mg/L, and 14,000 mg/L during the February 2007 event to 6,960 mg/L, 16,200 mg/L, and 24,200 mg/L during the October 2007 event, respectively. However, the concentration trends between sample locations and/or creek segments are relatively consistent with the February 2007 results. This increase in salinity during October 2007 is likely attributed to the above average precipitation received during the summer of 2007 that enhanced leaching of cations and anions from continuing source areas. It appears that these cations and

anions are being transported via the groundwater into Petronila Creek and the drainage ditches. At this time, sufficient historic data is not available to evaluate these seasonal fluctuations.

4.2 Soil

The soil sample analytical results collected from June 28 to July 14, 2007, are presented in Table 3. The following sections present the soil investigation results.

4.2.1 Soil Screening

Soil samples were field screened with a photo-ionization detector (PID) to identify volatile organic compounds (VOCs). Elevated PID results were observed at monitoring well locations P-MW-01, P-MW-02, and P-MW-12. The elevated PID results at P-MW-01 and P-MW-02 are attributed to the pipeline release at the El Paso Driscoll #3 release site. The elevated PID results at P-MW-12 appear to be associated with a leaking tank battery located adjacent to the monitoring well. The field screening results are shown on the soil boring/monitoring well completion logs presented in Appendix B.

4.2.2 Analytical Results

A total of 26 soil samples were collected in June and July 2007, and submitted for laboratory analysis of complete salinity, which included analysis for pH, conductivity, chloride, bromide, sulfate, nitrate, calcium, sodium, magnesium, potassium, iron, barium, carbonate, and bicarbonate. The soil samples were collected from depths ranging from 3 to 16 feet bgs. The 2007 soil analytical results are presented on Table 3 and summarized below.

Chloride concentrations ranged from 5.84 milligrams per kilogram (mg/kg) at P-SB-07 (8 to 10 feet bgs) to 7,030 mg/kg at P-SB-01 (10 to 12 feet bgs). Sulfate concentrations ranged from 58 mg/kg at P-SB-04 (9 to 11 feet bgs) to 9,240 mg/kg at P-SB-01 (3 to 5 feet bgs). Areas of elevated chloride and/or sulfate concentrations (>1,000 mg/kg) were observed at soil borings P-SB-01, P-SB-02, P-SB-03, P-SB-04, P-SB-10, P-SB-11, P-SB-12, P-SB-13, P-SB-16, P-SB-17, and P-SB-20. Low concentrations of chloride and sulfate were reported for soil samples collected at locations P-SB-07 and P-SB-22. The locations with the highest shallow soil concentrations are indicative of source areas and have the greatest likelihood to impact groundwater. These locations are as follows: Driscoll #2 release site, Driscoll #3 release site, oil field wasteland areas near P-MW-3, P-MW-6, and P-MW-16, and the drainage ditches along CR 18 and in the North Clara Driscoll field. The March 2007 and June/July 2007 soil analytical results for chlorides are presented on Figure 6.

4.3 Groundwater

The groundwater analytical results reported for October 2007 are presented in Table 2. Existing El Paso wells MW-12 located at the Driscoll #2 release site and MW-27 located at the Driscoll #3 release site were also sampled during October 2007. The following sections present the groundwater investigation results.

4.3.1 Groundwater Quality Parameters

The groundwater quality parameters (temperature, conductivity, pH, TDS, and ORP, and turbidity) were documented on the field sampling forms and are presented in Appendix A.

4.3.2 Analytical Results

The groundwater samples were submitted for laboratory analysis of complete salinity, which includes pH, conductivity, chloride, bromide, sulfate, nitrate, calcium, sodium, magnesium, potassium, iron, barium, alkalinity, and TDS. The results are summarized below.

- Chloride concentrations ranged from 300 mg/L in deep well P-MW-04 to 40,400 mg/L in shallow well P-D3-MW-27.
- Sulfate concentrations ranged from 3.89 mg/L in deep well P-MW-04 to 3,400 mg/L in shallow well P-D2-MW-12.
- TDS concentrations ranged from 2,100 mg/L in deep well P-MW-04 to 72,800 mg/L in shallow well P-D3-MW-27.
- Electrical conductivity results ranged from 6,480 microsiemens per centimeter (uS/cm) in shallow well P-MW-09 to 72,300 uS/cm in shallow well P-MW-06.

Chloride concentrations in groundwater from October 2007 are presented on Figure 7. Figure 7 also depicts chloride isoconcentration contours for shallow and intermediate wells. Elevated chloride concentrations were observed in all three depth intervals at nested well locations P-MW-01/02/D3-MW-27, P-MW-13/14/15, P-MW-17/18/19, and P-MW-20/21. Notable differences in chloride concentrations were observed at nested well sets P-MW-04/05/06 and P-MW-07/08/09. There does not seem to be a correlation between chloride concentration and lithologic unit at the well screen.

The highest chloride concentrations in the shallow wells were observed at P-D3-MW-27, P-MW-03, P-MW-06, P-MW-10, P-MW-15, P-MW-16, and P-MW-21. Elevated chloride concentrations were observed at all the intermediate wells (P-MW-02, P-MW-05, P-MW-06, P-MW-08, P-MW-17, and P-MW-21).

In general, chloride concentrations in the shallow and intermediate wells were relatively consistent with exception of wells P-MW-08 and P-MW-09. Surface water ponding was observed at nested wells P-MW-07/08/09 during the October 2007 sampling event. The lower salinity observed at P-MW-09 could be the result of water infiltrating into the subsurface and diluting groundwater in the shallow interval.

Chloride-to-sulfate ratios near or higher than 1 may indicate preferential chloride contributions from produced water, releases from oil field activities, or from water migrating upward from deeper pressurized saline zones. The chloride-to-sulfate ratios calculated for groundwater are presented in Table 2 and on Figure 8. The map depicts chloride-to-sulfate ratio isoconcentration contours for both the shallow and intermediate wells. The chloride-to-sulfate ratios calculated for groundwater samples collected from the monitoring wells at the site are generally consistent with the chloride results. The lowest ratio of 0.3 was reported at the shallow well P-MW-09 and the highest ratio of 77 was reported at deep well P-MW-04. The ratios at P-MW-04 and P-MW-09 are anomalous due to the low concentration of chloride and sulfate detected in the wells. With the exception of P-MW-04, the chloride to sulfate ratios were generally higher for shallow wells than the intermediate and deep wells.

The shallow wells with the highest chloride concentrations are likely indicative of source areas. These wells are generally located as follows: Driscoll #3 release site, oil field wasteland areas near P-MW-16 and P-MW-6, and the drainage ditch along CR 18. The nested wells downgradient (southeast) of these source areas have their highest chloride concentrations in the intermediate wells, followed by the deep wells and shallow wells. As the chloride moves downgradient (southeast), the highest concentrations are moving downward within the saturated zone due to a natural vertical hydraulic gradient and/or the higher density of saline water.

4.4 Quality Assurance

The analytical results were reviewed by TRC's quality assurance/quality control (QA/QC) chemist for compliance with the criteria presented in the QAPP. The review is provided in Appendix F. QC data associated with laboratory measurements indicate that measurement data are defensible and that measurement data reliability is generally within expected limits of sampling and analytical error given the data interpretation issues identified in the evaluation. The data user is advised of the following specific issues which are presented in the QA/QC reports:

- Reported results for nitrate in all samples (including equipment rinsate blanks) include a low bias due to holding time exceedances.

- The non-detected result for bicarbonate alkalinity in sample P-SB-11-11-12 is associated with an SDL that is greater than the QAPP-required reporting limit.
- Non-detected results for carbonate alkalinity in samples P-SB-01-3-5, P-SB-01-10-12, P-SB-02-5-7, P-SB-02-8-10, P-SB-03-6-8, P-SB-03-10-12, P-SB-04-14-16, P-SB-07-6-8, P-SB-10-5-7, P-SB-10-8-10, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-13-7-8, P-SB-13-10-12, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-8-10, and P-SB-16-12-13-D are associated with SDLs that are greater than QAPP-required reporting limits.
- Non-detected results for bromide in samples P-SB-07-6-8, P-SB-07-8-10, P-SB-10-5-7, P-SB-10-8-10, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-12-9-10, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-11-12, P-SB-16-12-13-D, P-SB-20-10-12, P-SB-22-9-10, and P-SB-22-10-12 are associated with SDLs that are greater than QAPP-required reporting limits.
- Non-detected results for chloride in samples P-SB-07-6-8 and P-SB-07-8-10 are associated with SDLs that are greater than QAPP-required reporting limits.
- Non-detected results for nitrate in samples P-SB-01-3-5, P-SB-01-10-12, P-SB-02-5-7, P-SB-02-8-10, P-SB-03-6-8, P-SB-03-10-12, P-SB-04-9-11, P-SB-04-14-16, P-SB-07-6-8, P-SB-07-8-10, P-SB-10-5-7, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-12-9-10, P-SB-13-7-8, P-SB-13-10-12, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-8-10, P-SB-17-11-12, P-SB-16-12-13-D, P-SB-20-7-8, P-SB-20-7-8-D, P-SB-20-10-12, P-SB-22-9-10, and P-SB-22-10-12 are associated with SDLs that are greater than QAPP-required reporting limits.
- Reported results for calcium in samples P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, and P-SB-12-9-10 may include a high bias based on high LCS/LCSD recoveries.
- Results for barium in samples P-SB-04-14-16, P-SB-11-11-12, and P-SB-20-10-12 are biased high based on MS/MSD recoveries.
- The reported concentration of barium in sample P-SB-04-14-16 includes excessive variability based on elevated MS/MSD RPD values.
- Reported concentrations of bicarbonate alkalinity in samples P-SB-04-14-16, P-SB-10-8-10, and P-SB-17-11-12 include excessive variability based on laboratory duplicate results.

- The reported concentration of chloride in sample P-SB-11-11-12 includes excessive variability based on laboratory duplicate results.
- Reported concentrations of bicarbonate alkalinity and carbonate alkalinity in sample P-SB-20-10-12 include excessive variability based on laboratory duplicate results.
- Reported concentrations of barium, calcium, and sulfate in sample P-SB-16-12-13 and P-SB-16-12-13-D include excessive variability based on field duplicate results.
- The reported concentration of barium in sample P-SB-20-7-8 and P-SB-20-7-8-D includes excessive variability based on field duplicate result.
- A site-wide soil matrix interference with barium precision exists based on results from duplicate analyses of field samples reported in the five work orders evaluated to generate this report.
- The reported concentration of chloride in the un-spiked analysis of sample P-MW-13 is qualified as estimated with a likely high bias (JH), based on MS/MSD results
- Reported concentrations of chloride and sulfate in sample P-CS-33 are qualified as estimated with a likely high bias (JH) based on elevated MS/MSD recoveries
- Reported concentrations of bromide and sulfate in sample P-MW-03 are flagged as estimated with a low bias (JL) based on low MS/MSD recoveries
- The reported concentration of bromide in sample P-MW-09 is qualified as estimated (J) based on an elevated MS/MSD RPD value
- Reported concentrations of sodium are qualified as estimated (J) in samples P-MW-06 and P-MW-06-D based on field duplicate results for P-MW-06
- Reported concentrations of bromide are qualified as estimated (J) in samples P-D-09 and P-D-09-D based on field duplicate results

5.0 CONCLUSIONS

The following conclusions were made based on the data collected during the Phase III investigation, as well as previous site investigations:

- The lithology beneath the site is dominated by clayey and silty soils with interbedded sand lenses at a depth of greater than 15 feet bgs.
- Groundwater occurs at a depth of 6 to 17 feet bgs under unconfined conditions and flows locally to Petronila Creek and regionally to the southeast.
- Well gauging data from six clusters of nested shallow, intermediate, and deep wells did not provide conclusive data regarding vertical groundwater gradients.
- Groundwater discharges into the Petronila Creek (i.e., gaining stream).
- Surface water concentrations for October 2007 increased in salinity between creek segments 2 and 6, followed by a gradual increase to segment 19, and a gradual decrease to segment 33. Surface water concentrations also increased in the downstream direction at the two drainage ditches. Overall, the surface water concentrations were higher in October 2007 as compared to the February 2007 results. This is attributed to increased leaching due to the higher than average rainfall during late summer 2007. However, the concentration trends in the creek and drainage ditches were generally consistent with February 2007.
- The soil analytical data identified potential source areas at the Driscoll #2 release site, Driscoll #3 release site, oil field wasteland areas near P-MW-3, P-MW-6, and P-MW-16, and drainage ditches along CR 18 and in the North Clara Driscoll field.
- The groundwater concentrations were, as expected, highest in the shallow wells at the potential source areas (Driscoll #3 release site, oil field wasteland areas near P-MW-16 and P-MW-6, and the drainage ditch along CR 18). In the downgradient direction, the highest groundwater concentrations are in the intermediate wells, followed by the deep wells, suggesting that the highest concentrations move downward within the saturated zone due to a natural vertical hydraulic gradient and/or the higher density of saline water.
- Based on the groundwater flow direction and the groundwater analytical results, groundwater is contributing elevated salinity into Petronila Creek. However, preferential pathways for groundwater migration to Petronila Creek have not been identified.

- Soil, groundwater, surface water, and in-situ data, indicate that elevated salinity in Petronila Creek within the project area is likely due to seven main contributing areas: (1) oil wasteland south of Petronila Creek near well P-MW-16; (2) oil wasteland south of Petronila Creek near well P-MW-6, (3) oil wasteland north of Petronila Creek near well P-MW-03, (4) unknown source near the El Paso Driscoll #2 release site at well P-D2-MW-12, (5) former disposal pit near the El Paso Driscoll #3 release site near P-D3-MW-27, (6) North Clara Driscoll drainage ditch, and (7) CR 18 drainage ditch.

6.0 RECOMMENDATIONS

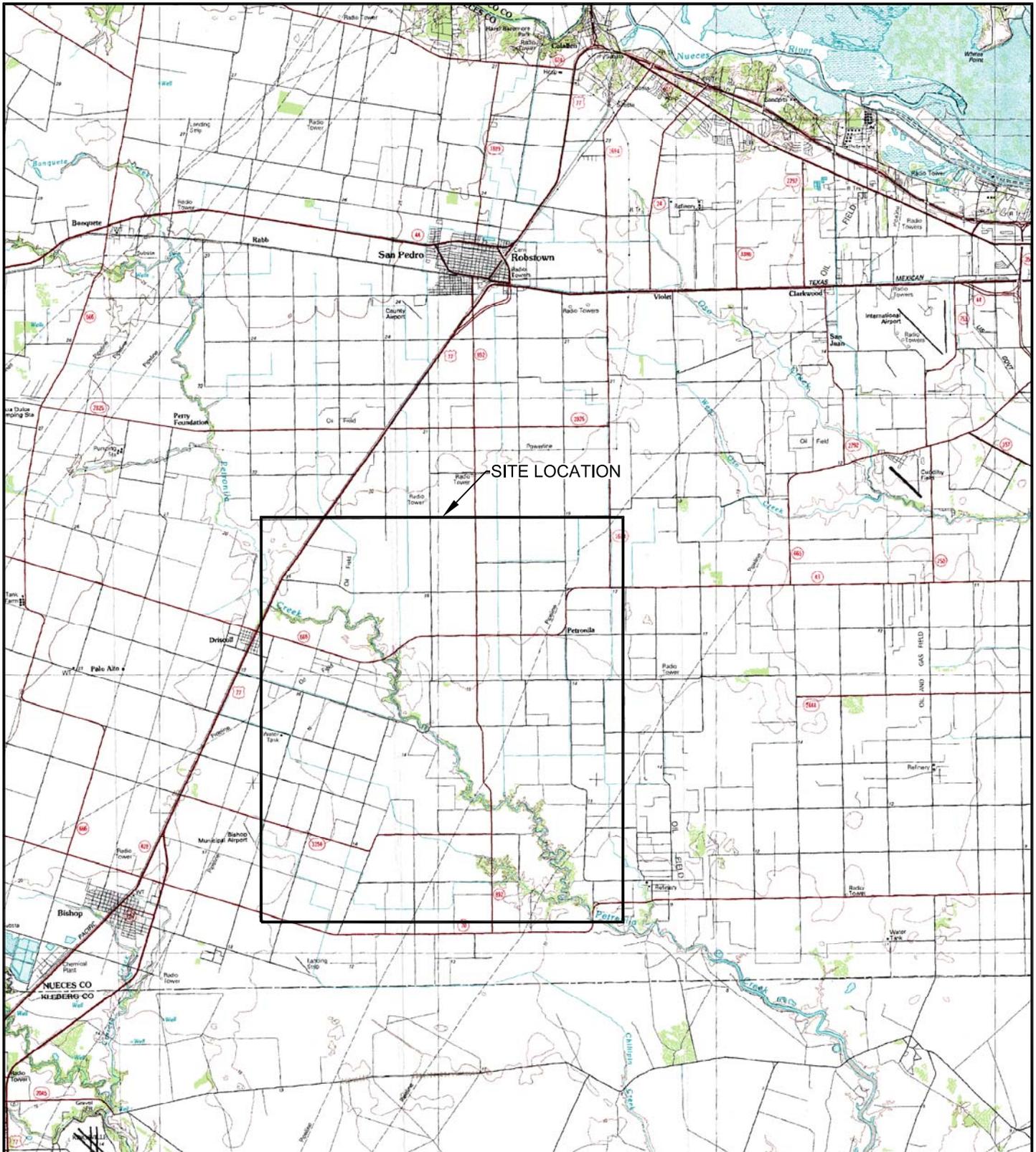
The following recommendations were made based on the data collected during the Phase III investigation, as well as previous site investigation:

- Due to the large scale and complexity of the site, development of a three-dimensional conceptual site model (CSM) of the physical and chemical site conditions is necessary to gain a better understanding of how impacted soil and groundwater from historical oil field operations are influencing salinity concentrations along Petronila Creek. Existing lithologic, groundwater, and surface water data will be used to develop the CSM, which would provide the following key information:
 - Location and extent of source areas, which would help define areas where a BMP could be applied to remove the source.
 - Correlation of the CPT and soil sample lithologic data.
 - Better definition of the groundwater regime including vertical gradients.
 - Location of any preferential migrations pathways for impacted groundwater to Petronila Creek (e.g., sand lenses). These pathways would define areas where a BMP could be used to effectively reduce the mass flux of salinity entering Petronila Creek.
- The CSM would identify data gaps that could be addressed during completion of the feasibility study. New data collected during the feasibility study would be incorporated into an updated CSM, which would be used to aid in the development of BMPs.

7.0 REFERENCES

- BEG, 1975. *Geologic Atlas of Texas Corpus Christi Sheet*. The University of Texas at Austin, Bureau of Economic Geology, Geologic Atlas of Texas, Scale 1:250,000.
- RRC, 2007. *Investigation of Increased Salinity Along Petronila Creek (Segment 2204) Quality Assurance Project Plan – Revision 1*. Submitted by the RRC to the TCEQ and USEPA in February 2007. Approved February 2007.
- TRC, 2007a. *Final – Field Investigation Work Plan, Petronila Creek Phase III Investigation, Nueces County, Texas*. TRC Environmental. May 2007.
- TRC, 2007b. *Draft – Interim Technical Memorandum for Petronila Creek, Nueces County, Texas*. TRC Environmental. August 10, 2007.
- TWDB, 1968. Report 73 – Groundwater Resources of Nueces and San Patricio Counties Texas. Texas Water Development Board. May 1968.

FIGURES



SCALE IN MILES
1" = 3 MILES



SOURCE
U.S.G.S. 1:100,000-SCALE TOPOGRAPHIC MAP, CORPUS CHRISTI (1980), TEXAS.

SITE LOCATION MAP

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

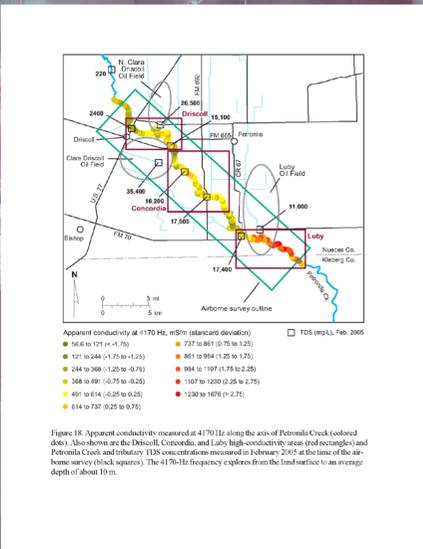
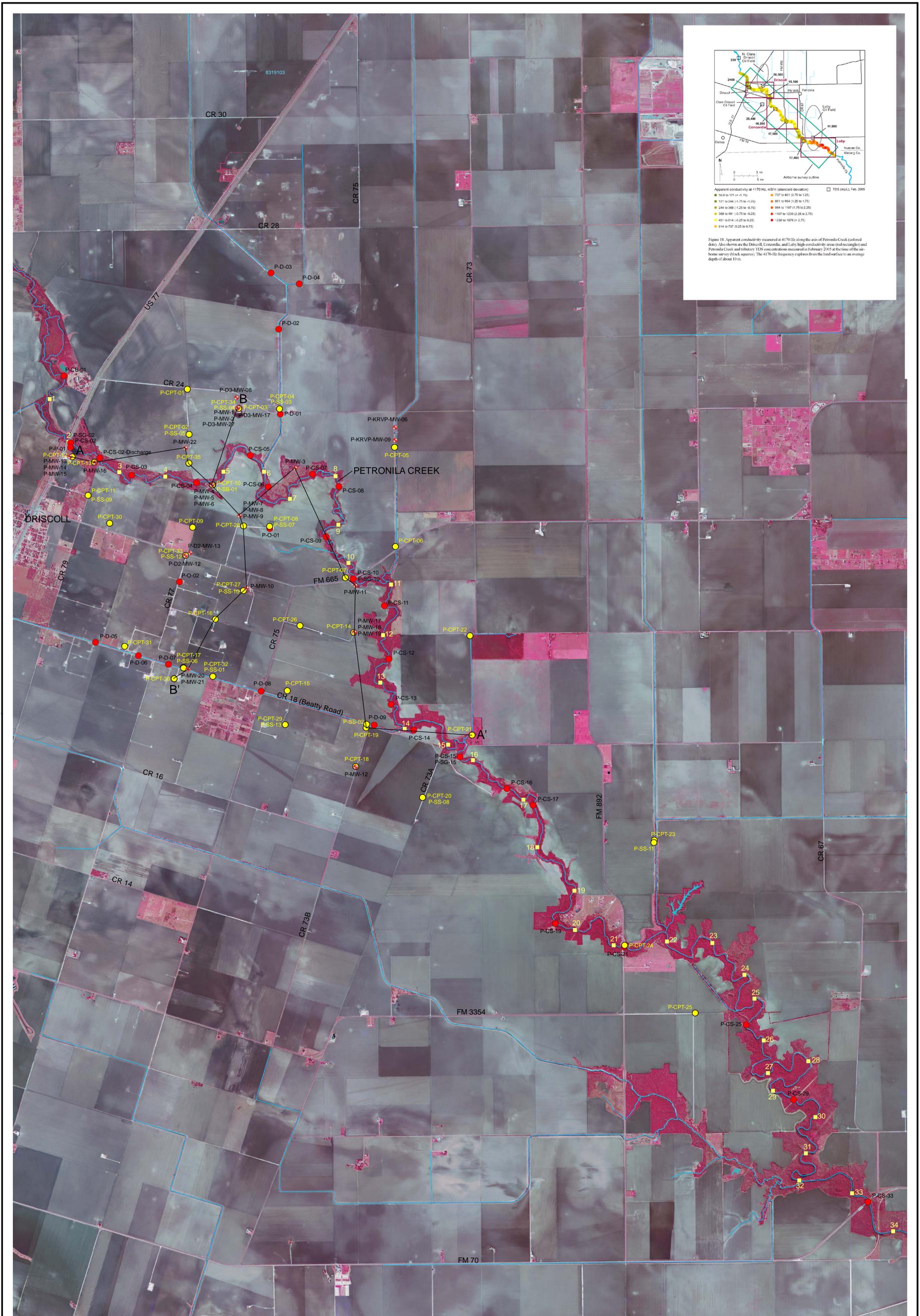
PROJECT NO.	128161	DWG FILE	128161-1
DRAWN BY.	CL	DATE	4/17/08



505 EAST HUNTLAND DRIVE
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AUSTIN, TEXAS 78752
(512) 329-6080

FIGURE

1



Apparent conductivity at 4170 Hz, mS/m (standard deviation) □ TDS (mg/L), Feb. 2005

● 16.6 to 121 (< 1.75)	● 737 to 861 (1.75 to 1.25)
● 121 to 244 (1.25 to 1.25)	● 861 to 984 (1.25 to 1.75)
● 244 to 368 (1.25 to 0.75)	● 984 to 1107 (1.75 to 2.25)
● 368 to 491 (0.75 to 0.25)	● 1107 to 1230 (2.25 to 2.75)
● 491 to 614 (0.25 to 0.25)	● 1230 to 1676 (> 2.75)
● 614 to 737 (0.25 to 0.75)	

Figure 18. Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured on February 2005 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

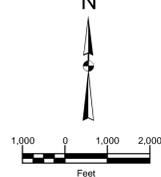
LEGEND

- A-A' Cross-Section Line
- Seasonal Water Sample Location
- CPT (P-CPT-XX) and Shallow Soil Sample (P-SS-XX) Locations
- Monitoring Well Location
- Surface Drainage (Petronila Creek and drainage ditches)
- Creek Segments for Petronila Creek (Kilometer Markers)

SOURCE:

1. U.S.G.S. Digital Ortho Quarter Quads (DOQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East SE (2004), Driscoll East SW (2004), Texas DOQs.
2. BEG Airborne Geophysical Survey Report ("Figure 18 inset")

N



SITE MAP

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

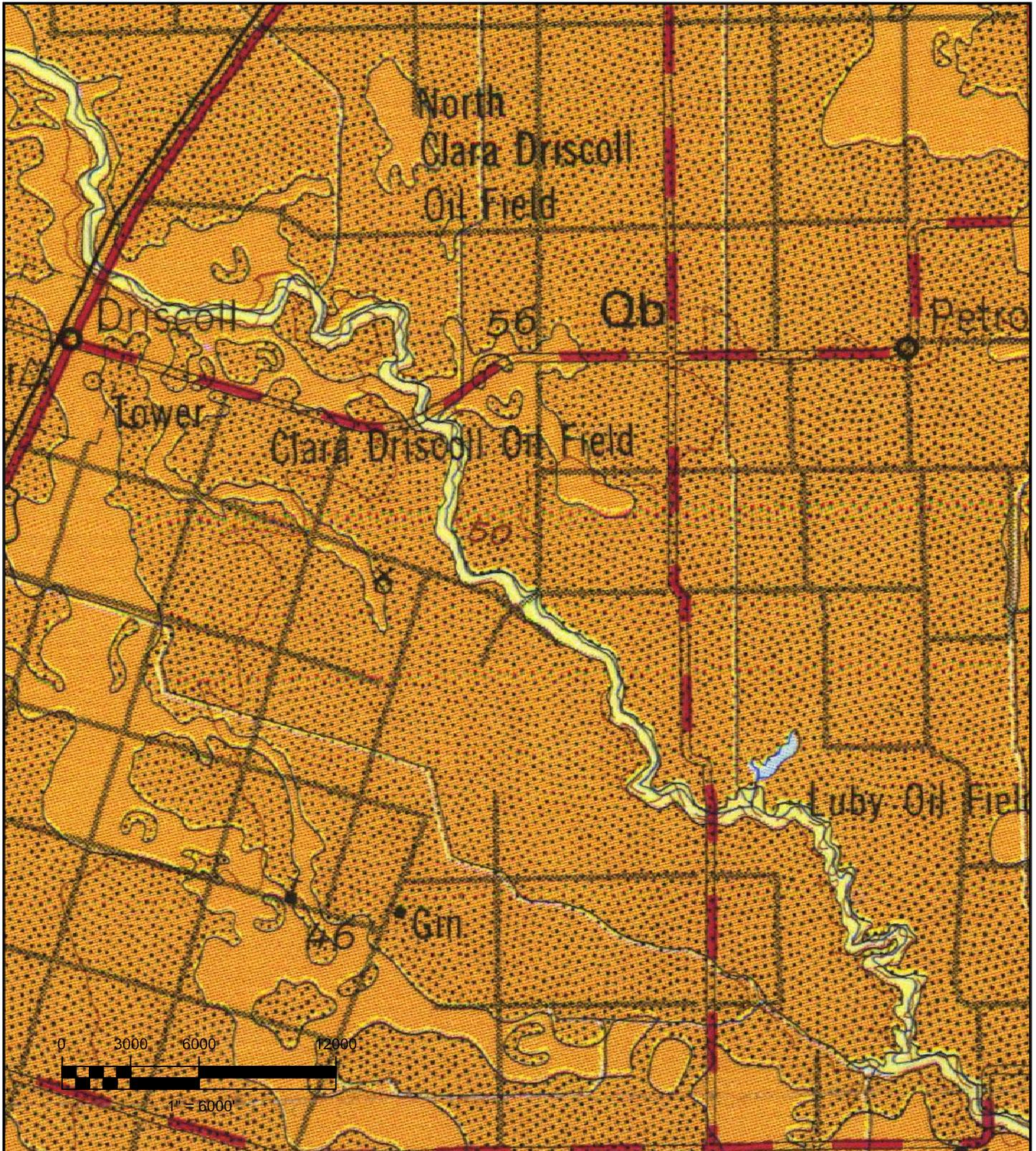
PROJECT NO.: 128161

DATE: 4/17/2008



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FIGURE
2



LEGEND

- Qal ALLUVIUM
- Qb BEAUMONT FORMATION

SOURCE

BUREAU OF ECONOMIC GEOLOGY, GEOLOGIC ATLAS OF TEXAS, CORPUS CHRISTI SHEET (1975).

REGIONAL GEOLOGIC MAP

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

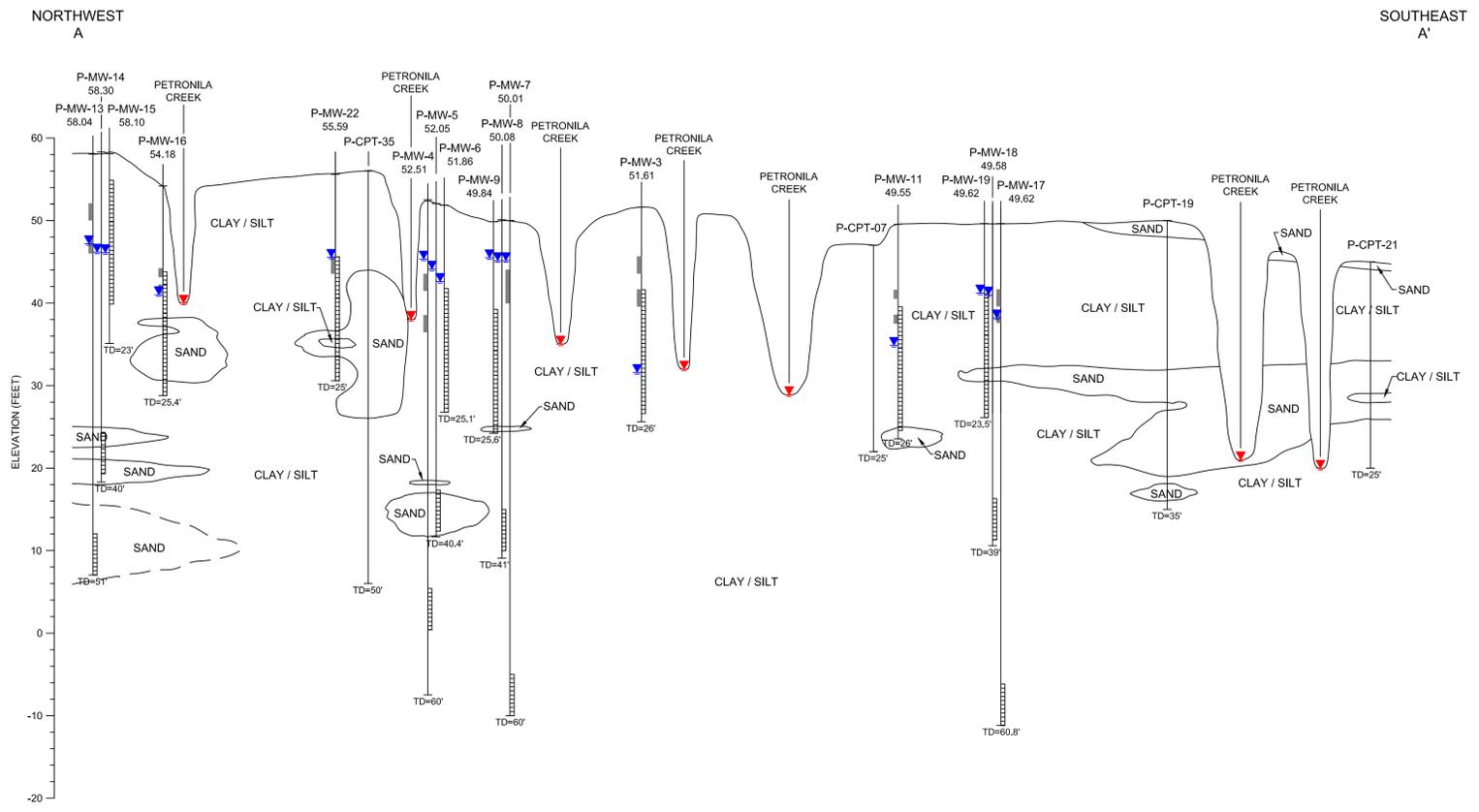
PROJECT NO.	128161	DWG FILE	128161-3
DRAWN BY.	CL	DATE	4/17/08



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FIGURE

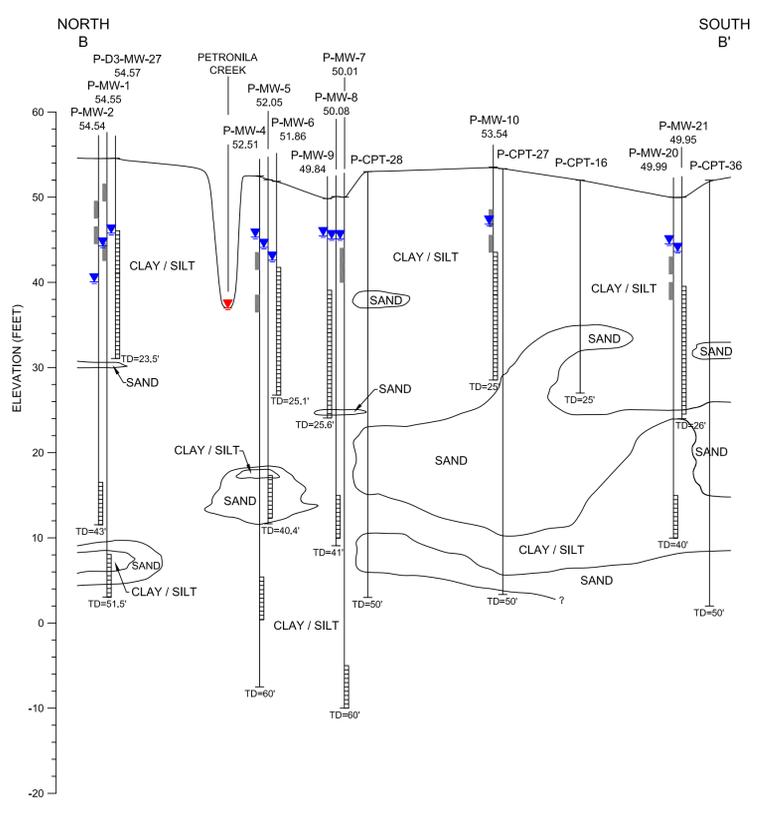
3



- LEGEND**
- P-MW-2 54.54 - MONITORING WELL WITH GROUND SURFACE ELEVATION
 - ▲ - ANALYTICAL SAMPLE LOCATION
 - ▼ - GROUNDWATER ELEVATION (DECEMBER 6, 2007)
 - ▬ - SCREENED INTERVAL
 - TD=43 - TOTAL DEPTH
 - P-CPT-02 - SOIL BORING
 - ▲ - ANALYTICAL SAMPLE LOCATION
 - TD=25' - TOTAL DEPTH
 - ▼ - PETRONILA CREEK ELEVATION (APPROXIMATE)

- NOTES:**
1. CPT ELEVATIONS ESTIMATED FROM TOPOGRAPHIC MAP.
 2. SLOW RECHARGE OBSERVED AT WELLS P-MW-02, P-MW-03, AND P-MW-17 AFTER WELL DEVELOPMENT AND SAMPLING IN OCTOBER 2007.

SCALE:
 VERTICAL : 1" = 10'
 HORIZONTAL : 1" = 2000'
 VERTICAL EXAGGERATION = 200X



CROSS-SECTIONS A-A' AND B-B'

RAILROAD COMMISSION OF TEXAS
 PETRONILA CREEK

PROJECT NO.	128161	DWG. FILE	128161-4
DRAWN BY:	CL	DATE	4/17/08

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FIGURE
4

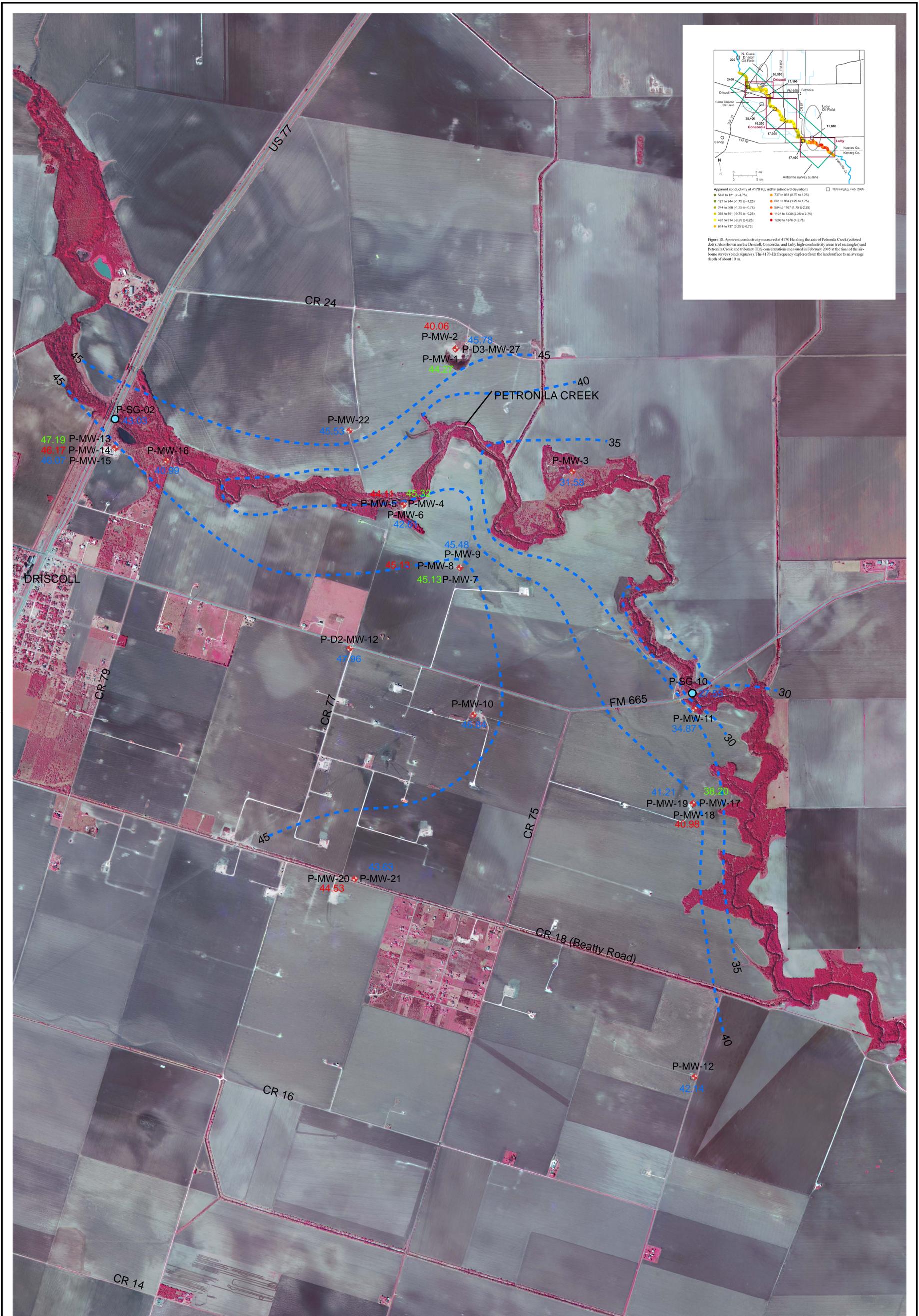


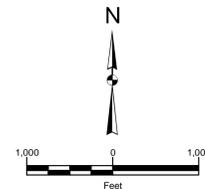
Figure 18. Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured in February 2007 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

LEGEND

- Monitoring Well Location
- Petronila Creek Stream Gauging Location
- 42.14 Groundwater Elevation, Shallow Screen Interval
- 40.06 Groundwater Elevation, Intermediate Screen Interval
- 44.27 Groundwater Elevation, Deep Screen Interval
- - - Groundwater Potentiometric Surface Contour, Feet Above Mean Sea Level

NOTES:

1. Source: U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East NW (2004), Driscoll East SE (2004), and Driscoll East SW (2004), Texas DOQQs.
2. Source: BEG Airborne Geophysical Survey Report (Figure 18 inset)
3. Elevations in feet above mean sea level.



GROUNDWATER POTENTIOMETRIC MAP - DECEMBER 2007

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

PROJECT NO.: 128161 DATE: 4/17/2008

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SUITE 250
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512-329-6080

FIGURE
5

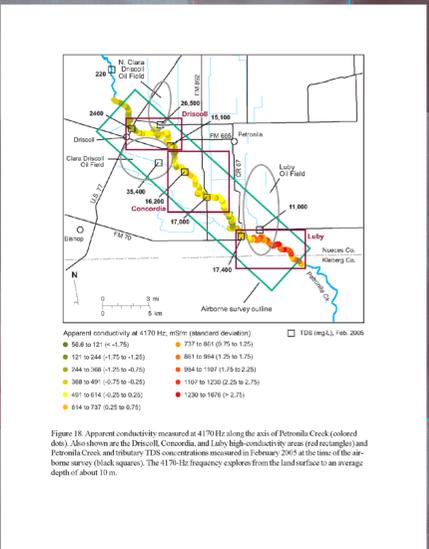
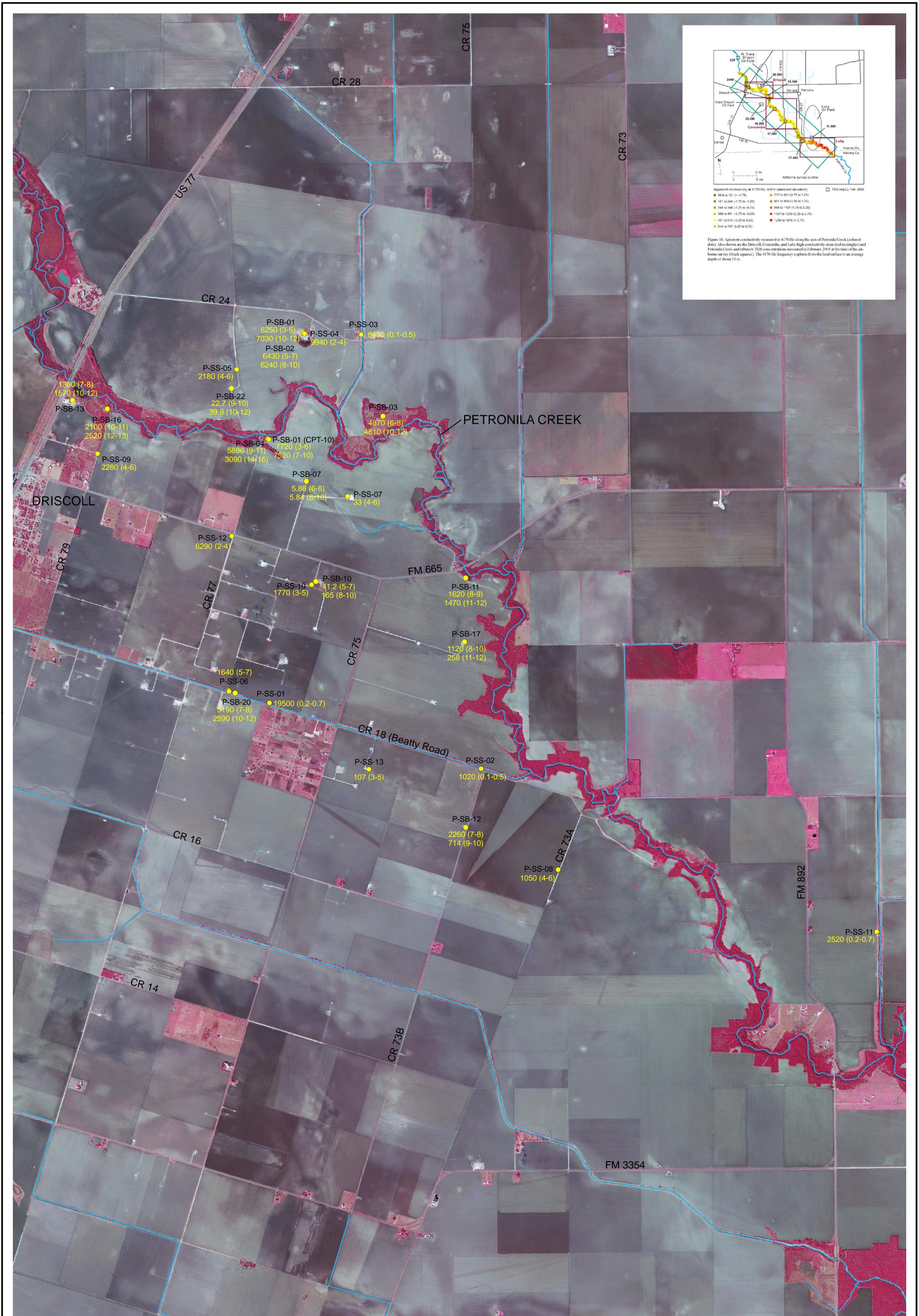


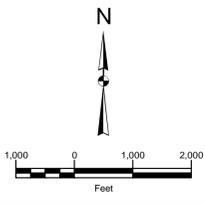
Figure 18: Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured in February 2007 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

LEGEND

- Shallow Soil Sample (P-SS-XX) and Soil Boring (P-SB-XX) Locations
- 6250 (3-5) Chloride Concentration (mg/kg) with corresponding depth interval (feet bgs)
- Surface Drainage (Petronila Creek and drainage ditches)

SOURCE:

1. U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East NW (2004), Driscoll East SE (2004), and Driscoll East SW (2004), Texas DOQQs.
2. BEG Airborne Geophysical Survey Report ("Figure 18 inset")



CHLORIDE CONCENTRATIONS IN SOIL	
RAILROAD COMMISSION OF TEXAS PETRONILA CREEK	
PROJECT NO.: 128161	DATE: 4/17/2008
505 EAST HUNTLAND DRIVE SUITE 250 AUSTIN, TEXAS 78752 512-329-6080	
FIGURE 6	

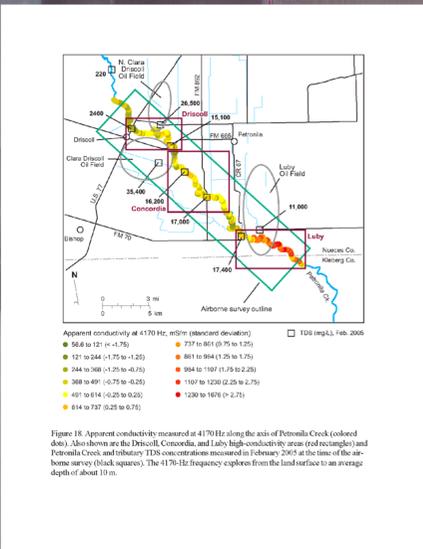
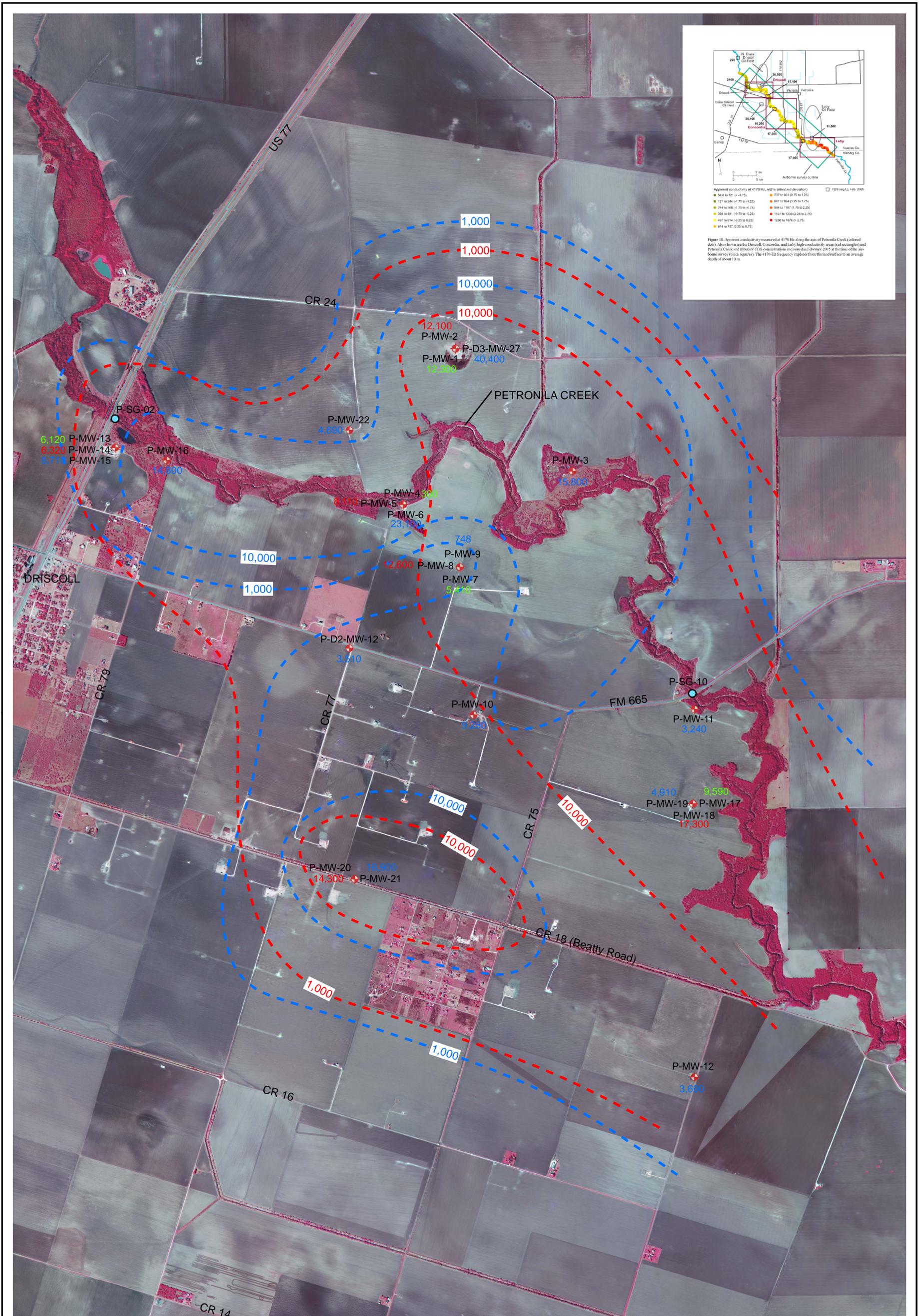


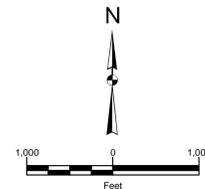
Figure 18. Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured in February 2007 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

LEGEND

- ◆ Monitoring Well Location
- ◆ 748 Chloride Concentration, Shallow Screen Interval
- ◆ 8,110 Chloride Concentration, Intermediate Screen Interval
- ◆ 300 Chloride Concentration, Deep Screen Interval
- Chloride Isoconcentration Contour, Shallow Screen Interval
- Chloride Isoconcentration Contour, Intermediate Screen Interval

NOTES:

1. Source: U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East NW (2004), Driscoll East SE (2004), and Driscoll East SW (2004), Texas DOQQs.
2. Source: BEG Airborne Geophysical Survey Report (Figure 18 inset)
3. All concentrations in mg/L.



CHLORIDE CONCENTRATIONS IN GROUNDWATER - OCTOBER 2007

RAILROAD COMMISSION OF TEXAS
PETRONILA CREEK

PROJECT NO.: 128161 DATE: 4/17/2008

CTRC 505 EAST HUNTLAND DRIVE
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FIGURE
7

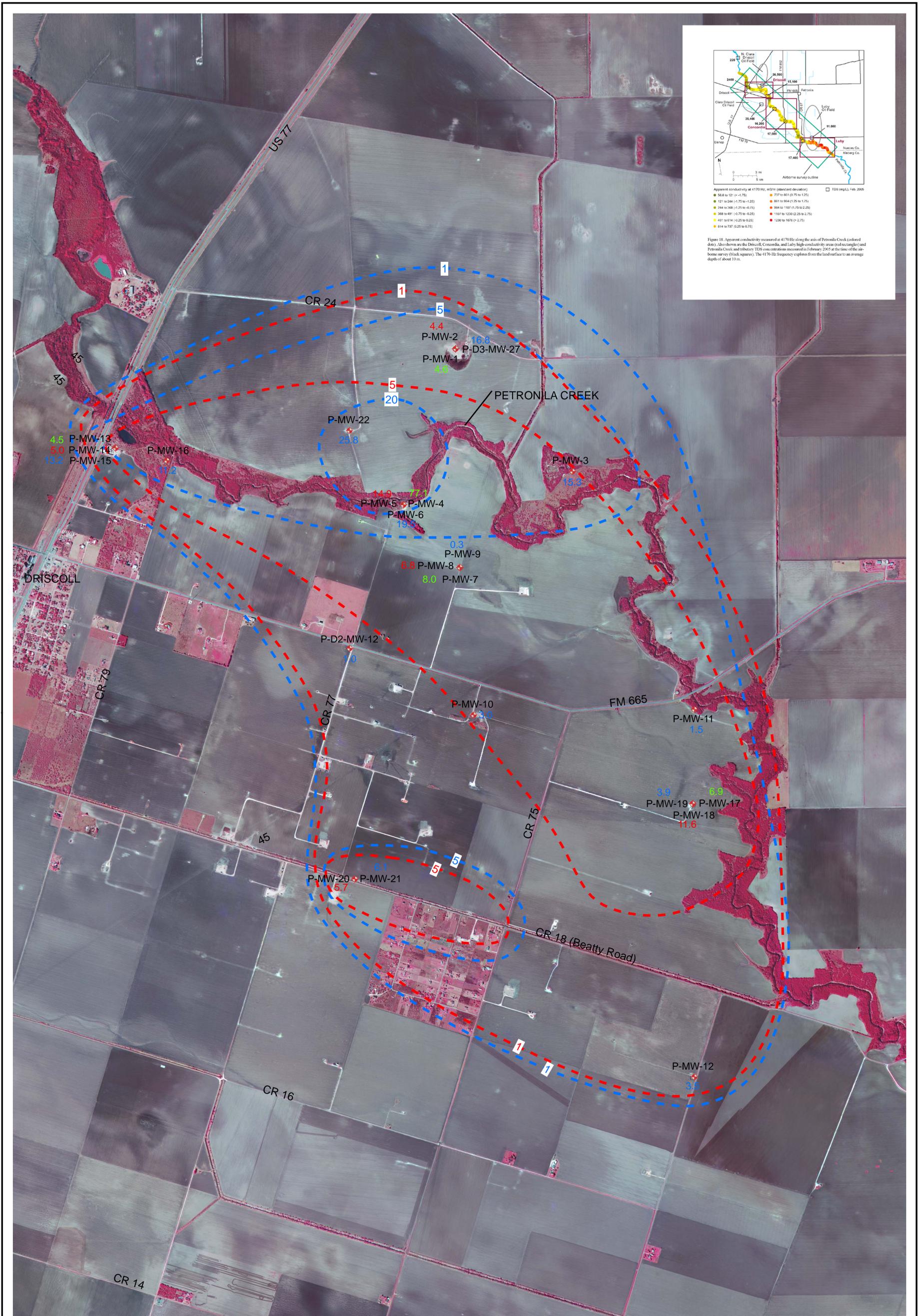


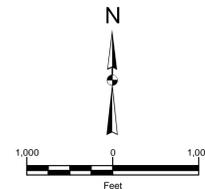
Figure 18. Apparent conductivity measured at 4170 Hz along the axis of Petronila Creek (colored dots). Also shown are the Driscoll, Concordia, and Luby high-conductivity areas (red rectangles) and Petronila Creek and tributary TDS concentrations measured in February 2007 at the time of the airborne survey (black squares). The 4170-Hz frequency explores from the land surface to an average depth of about 10 m.

LEGEND

- ◆ Monitoring Well Location
- ◆ 42.14 Chloride-Sulfate Ratio, Shallow Screen Interval
- ◆ 40.06 Chloride-Sulfate Ratio, Intermediate Screen Interval
- ◆ 44.27 Chloride-Sulfate Ratio, Deep Screen Interval
- Chloride-Sulfate Isoconcentration Contour, Shallow Screen Interval
- Chloride-Sulfate Isoconcentration Contour, Intermediate Screen Interval

NOTES:

1. Source: U.S.G.S. Digital Ortho Quarter Quads (DOQQs) for Concordia NE (2004), Concordia NW (2004), Driscoll East NE (2004), Driscoll East NW (2004), Driscoll East SE (2004), and Driscoll East SW (2004), Texas DOQQs.
2. Source: BEG Airborne Geophysical Survey Report (Figure 18 inset)
3. Elevations in feet above mean sea level.



CHLORIDE-SULFATE RATIO MAP - OCTOBER 2007	
RAILROAD COMMISSION OF TEXAS PETRONILA CREEK	
PROJECT NO.: 128161	DATE: 4/17/2008
505 EAST HUNTLAND DRIVE SUITE 250 AUSTIN, TEXAS 78752 512-329-6080	
FIGURE 8	

TABLES

TABLE 1. SEASONAL WATER SAMPLING RESULTS

Sample ID	Petronila Creek Segment (km)	Sample Date	Field Results				Laboratory Results														
			Chloride mg/L	Conductivity uS/cm	pH S.U.	TDS mg/L	Anions					Alkalinity (As CaCO3)				Cations					
							TDS mg/L	Bromide mg/L	Chloride mg/L	Nitrate-N mg/L	Sulfate mg/L	Bicarbonate mg/L	Carbonate mg/L	Hydroxide mg/L	Total mg/L	Barium mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L
Samples Along Petronila Creek																					
P-CS-01	-0.421	2/12/07	28.25	24	7.5	150															
P-CS-02	2.05	2/12/07	29.5	26	7.5	170	309	0.3 U	11.1	6.52	97	10 U	10 U	97	0.14	31.6	0.495	3.38	8.74	10.1	
P-CS-02	2.05	10/25/07		2083	7.84	1547	1300	1.85	472	0.1 U	173	210	10 U	10 U	210	0.249	172	0.1	19.3	13.4	174
P-CS-03	3.25	2/12/07	443	1700	7.4	1100	961	0.974 J	405		100	110	10 U	10 U	110	0.135	91.7	0.229	16.8	9.07	197
P-CS-04	4.55	2/12/07	533	2100	7.4	1400															
P-CS-05	5.6	2/13/07	730	2700	6.4	1700	1360	1.45	611		128	116	10 U	10 U	116	0.161	142	0.233	26.2	10.6	312
P-CS-06	6.3	2/13/07	775	3020	7.5	1900	1490	1.69	695		141	115	10 U	10 U	115	0.156	149	0.217	27.3	10.4	356
P-CS-06	6.3	10/25/07		16590	7.97	15430	12400	10.4	5510	2.15	1090	191	10 U	10 U	191	0.434	857	0.131	181	21.4	2710
P-CS-07	7.7	2/13/07	720	2980	7.6	1900															
P-CS-08	8.25	2/13/07	730	2950	8.2	1900															
P-CS-09	9.35	2/13/07	750	3120	8.4	2000	1590	1.74	745		135	115	10 U	10 U	115	0.168	152	0.394	29.2	10.6	347
P-CS-10	10.4	2/13/07	980	3540	8.3	2300	1800	2.04	843		148	117	10 U	10 U	117	0.173	185	0.191	32.8	10.4	423
P-CS-11	11.45	2/15/07	1730	5710	7.5	3600	3090	4.46 J	1520		261	142	10 U	10 U	142	0.193	278	0.299	50.8	11.1	605
P-CS-11	11.45	10/25/07		16400	7.09	15010	11800	17	5590	1.98	937	204	10 U	10 U	204	0.34	970	0.0785 J	190	18.3	2460
P-CS-12	12.55	2/15/07	1800	5770	7.6	3600															
P-CS-13	13.55	2/15/07	2050	6500	7.6	4100	3790	5.45 J	1860		315	151	10 U	10 U	151	0.2	324	0.0991 J	56.6	11	760
P-CS-14	14.15	2/15/07	2110	6700	7.8	4200	3830	5.41 J	2000		335	153	10 U	10 U	153	0.189	342	0.204	58.2	10.5	838
P-CS-14	14.15	10/25/07		19220	7.66	18300	13300	13.6	6550	1.9	1290	203	10 U	10 U	203	0.275	991	0.0792 J	206	17.6	3200
P-CS-15	15.8	2/13/07	1650	6110	8.0	3900	3160	3.52	1690		255	139	10 U	10 U	139	0.187	296	0.203	57.8	10.8	764
P-CS-16	16.65	2/15/07	2510	8840	8.3	5600	4470	5.08 J	2290		324	155	10 U	10 U	155	0.199	383	0.166	77.4	11.4	942
P-CS-17	17.15	2/15/07	2900	9700	8.4	6000															
P-CS-19	19.75	2/15/07	3100	11100	8.2	7000	5820	5.79	3010		544	162	10 U	10 U	162	0.196	529	0.287	95.8	12.3	1280
P-CS-19	19.75	10/25/07		20170	7.24	19290	14400	17.3	6960	8.94	1240	178	10 U	10 U	178	0.298	1140	1.6	231	19.8	3200
P-CS-21	21.15	2/13/07	2200	8200	8.5	5200	4340	4.85	2190		366	136	11.2	10 U	147	0.192	399	0.18	79.2	11.2	961
P-CS-25	25.6	2/15/07	3180	11100	8.3	7000	5760	5.6	2970		486	157	10 U	10 U	157	0.206	507	0.181	97.2	11.8	1290
P-CS-25	25.6	10/25/07		18410	7.88	17390	12800	16.4	6360	8.95	1250	162	10 U	10 U	162	0.264	989	0.0829 J	209	17.7	2890
P-CS-29	29.3	2/15/07	2470	8910	8.5	5600															
P-CS-33	33.25	2/15/07	2050	7460	8.2	4700	3870	4.77 J	1950		305	141	10 U	10 U	141	0.192	335	0.193	63.8	11	870
P-CS-33	33.25	10/25/07		12120	8.1	10670	7900	8.66	3820	0.1 U	822	152	10 U	10 U	152	0.313	572	0.146	126	18.4	1850
P-CS-02-Discharge		2/12/07	260	1400	4.5	900	705	0.3 U	204		89	10 U	10 U	10 U	0.193	65.2	0.248	11.8	19.7	140	
Pond																					
P-P-01	NA	2/15/07	505	2380	8.4	1500	1120	2.02	498		119	139	10 U	10 U	139	0.317	95.4	0.231	18.5	7.55	234
North Clara Driscoll Ditch																					
P-D-01	NA	2/14/07	7600	20700	8.5	13000	12500	16.5	6880		1200	109	10 U	10 U	109	0.206	537	0.123	102	14.7	3460
P-D-01		10/25/07		41960	6.18	46850	31600	37.8	16200	2.35 J	2780	186	10 U	10 U	186	0.308	1500	0.65	296	33.2	8780
P-D-02	NA	2/14/07	267.5	1610	8.4	1000	863	0.897 J	245		182	174	10 U	10 U	174	0.137	74.5	0.216	7.6	6.56	184
P-D-02		10/25/07		6951	7.12	5800	4260	3.22	1200	0.1 U	1370	223	10 U	10 U	223	0.316	318	0.102	36.1	12.3	980
P-D-03	NA	2/14/07	48.8	49.5	8.8	320															
P-D-04	NA	2/14/07	84	82.1	8.2	520															
Clara Driscoll Ditch (CR 18)																					
P-D-05	NA	2/15/07	30	42.7	7.9	280															
P-D-06	NA	2/15/07	1850	7140	7.6	4500	3550	3.56	1590		546	84.5	10 U	10 U	84.5	0.439	275	0.05 U	28.2	9.58	860
P-D-06		10/25/07		8788	8.3	7400	5200	6.63	2430	0.1 U	751	83.3	10 U	10 U	83.3	0.496	500	1.43	52.3	20	1390
P-D-07	NA	2/15/07	14500	40700	8.6	25000	24600	49.3 J	14000		1890	49.2	12.2	10 U	61.3	0.342	1630	0.0534 J	200	24.7	6240
P-D-07		10/25/07		59200	7.03	68690	47400	56.4	24200	0.5 U	2730	118	10 U	10 U	118	0.25	2460	3.09	554	44.6	12000
P-D-08	NA	2/15/07	15300	44300	7.9	27000															
P-D-09	NA	2/15/07	8825	24600	8.1	15000	16800	33.4 J	8500		2530	158	10 U	10 U	158	0.167	902	0.19	191	14.9	4370
P-D-09	NA	10/25/07		29640	7.21	30010	21600	23.2	9910	7.14	2790	274	10 U	10 U	274	0.0826	1190	0.0524 J	290	19.8	5600
P-D-09-D	NA	10/25/07					21200	30.9	9810	7.03	2770	275	10 U	10 U	275	0.0873	1170	0.05 U	296	20.1	5830

TABLE 1. SEASONAL WATER SAMPLING RESULTS

Sample ID	Petronila Creek Segment (km)	Sample Date	Field Results				Laboratory Results															
			Chloride mg/L	Conductivity uS/cm	pH S.U.	TDS mg/L	Anions					Alkalinity (As CaCO3)				Cations						
							TDS mg/L	Bromide mg/L	Chloride mg/L	Nitrate-N mg/L	Sulfate mg/L	Bicarbonate mg/L	Carbonate mg/L	Hydroxide mg/L	Total mg/L	Barium mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	
Driscoll #2 Site																						
P-D2-MW-12	NA	2/14/07	4000	15600	6.7	10000	11000	12.1	3930		3260	486	10 U	10 U	486	0.0198	555	0.269	104	6.39	2890	
P-D2-MW-13	NA	2/15/07	5950	21900	6.6	14000	13600	30 U	5480		2900	515	10 U	10 U	515	0.0278	839	0.706	158	9.71	3340	
Driscoll #3 Site																						
P-D3-MW-08	NA	2/14/07	13250	37800	6.5	23000	24500	164	12800		2950	310	10 U	10 U	310	0.0246	1170	0.05 U	342	15.3	6040	
P-D3-MW-17	NA	2/14/07	>40000	92200	6.3	55000	68800	130	42100		2140	305	10 U	10 U	305	0.0828	3000	0.25 U	556	69.7	19000	
P-D3-MW-17-D	NA	2/14/07	>40000	92200	6.3	55000	70400	127	41400		2130	305	10 U	10 U	305	0.0834	3430	0.273 J	570	67.6	20700	
King Ranch to Viola Pipeline Site																						
P-KRVP-MW-06	NA	2/14/07	NA	3149	7.0		453	0.452 J	33.4		36.2	325	10 U	10 U	325	0.241	88.6	0.315	11.7	4.85	43.4	
P-KRVP-MW-09	NA	2/14/07	NA	735	7.3		2460	1.06	544		785	347	10 U	10 U	347	0.0355	107	0.0912 J	22.3	4.97	614	
Clara Driscoll Storage Tanks																						
P-O-01	NA	2/15/07	NA	>99,999	6.8	>99,999	76600	215	50200		1 U	339	10 U	10 U	339	117	1330	39.2	210	176	23100	
P-O-01-D	NA	2/15/07	NA	>99,999	6.8	>99,999	77200	233	50700		11 J	336	10 U	10 U	336	116	1290	39.6	205	174	23700	
P-O-02	NA	2/15/07	NA	>99,999	6.5	>99,999	109000	170	70100		1 U	220	10 U	10 U	220	251	3220	89.2	424	263	38100	

Notes:

- J Analyte detected between sample quantification limit and reporting limit
- U Analyte not detected at the sample quantification limit
- km Kilometer
- mg/L Milligrams per liter
- S.U. pH standard units
- TDS Total dissolved solids
- uS/cm Microsiemens per centimeter

TABLE 2. GROUNDWATER SAMPLING RESULTS

Sample ID	Depth Interval	Sample Date	Field Results			Laboratory Results																	Chloride-Sulfate Ratio Unitless
			Conductivity uS/cm	pH S.U.	TDS ppm	Conductivity umhos/cm	pH S.U.	TDS mg/L	Anions				Alkalinity (As CaCO3)				Cations						
									Bromide mg/L	Chloride mg/L	Nitrate-N mg/L	Sulfate mg/L	Bicarbonate mg/L	Carbonate mg/L	Hydroxide mg/L	Total mg/L	Barium mg/L	Calcium mg/L	Iron mg/L	Magnesium mg/L	Potassium mg/L	Sodium mg/L	
Driscoll # 2 Site																							
P-D2-MW-12	S	2/14/07	15600	6.7	10			11000	12.1	3930		3260	486	10 U	10 U	486	0.0198	555	0.269	104	6.39	2890	1.2
P-D2-MW-12	S	10/3/07	14910	7.01	13.03	15800	6.91	10700	9.53	3510	2.34	3400	448	10 U	10 U	448	0.0199	559	1.58	103	6.45	2650	1.0
P-D2-MW-13	S	2/15/07	21900	6.6	14			13600	30 U	5480		2900	515	10 U	10 U	515	0.0278	839	0.706	158	9.71	3340	1.9
Driscoll #3 Site																							
P-D3-MW-08	S	2/14/07	3780	6.5	23			24500	164	12800		2950	310	10 U	10 U	310	0.0246	1170	0.05 U	342	15.3	6040	4.3
P-D3-MW-17	S	2/14/07	92200	6.3	55			68800	130	42100		2140	305	10 U	10 U	305	0.0828	3000	0.25 U	556	69.7	19000	19.7
P-D3-MW-17-D	S	2/14/07	92200	6.3	55			70400	127	41400		2130	305	10 U	10 U	305	0.0834	3430	0.273 J	570	67.6	20700	19.4
P-D3-MW-27	S	10/3/07	88400	6.24	120.2	112000	6.29	72800	133	40400	1 U	2400	249	10 U	10 U	249	0.157	3420	5.39	601	47.1	19100	16.8
King Ranch to Viola Pipeline Site																							
P-KRVP-MW-06	S	2/14/07	735	6.96				453	0.452 J	33.4		36.2	325	10 U	10 U	325	0.241	88.6	0.315	11.7	4.85	43.4	0.9
P-KRVP-MW-09	I	2/14/07	3149	7.29				2460	1.06	544		785	347	10 U	10 U	347	0.0355	107	0.0912 J	22.3	4.97	614	0.7
Petronila Creek Monitoring Wells																							
P-MW-01	D	10/2/07	32190	6.97	33.12	39000	6.65	25600	26.9	12300	0.5 U	2690	358	10 U	10 U	358	0.0353	1320	0.486	337	27.7	5850	4.6
P-MW-02	I	10/3/07	32440	7.17	33.13	38500	6.73	24600	28.7	12100	0.5 U	2740	381	10 U	10 U	381	0.159	1730	19.1	337	28	5970	4.4
P-MW-03	S	10/26/07	39800	6.31	42.93	46600	6.50	30300	33.6	15800	0.1 U	1030	231	10 U	10 U	231	0.433	4400	6.01	482	19.2	5940	15.3
P-MW-04	D	10/4/07	7540	12.60	6.27	8310	12.50	2100	0.6 U	300	0.2 U	3.89	10 U	74	1730	1800	1.71	657	4.66	1.96	59.7	163	77.1
P-MW-05	I	10/4/07	20900	6.16	19.9	23500	6.58	16900	14.3	8110	2.15 J	544	219	10 U	10 U	219	0.311	2100	0.145	322	37.7	1650	14.9
P-MW-06	S	10/4/07	50750	6.34	56.6	69800	6.27	42600	78.5	23100	1.68 J	1300	328	10 U	10 U	328	0.274	3620	5.97	644	83.4	7340	17.8
P-MW-06-D	S	10/4/07	50750	6.34	56.6	72300	6.16	42100	77.1	22800	1.79 J	1170	305	10 U	10 U	305	0.27	3380	6.42	662	80.6	9830	19.5
P-MW-07	D	10/4/07	14940	11.36	13.54	17700	11.70	10800	9.65	5410	0.5 U	679	10 U	61.8	240	302	0.843	633	0.5 U	5.35	52.5	2680	8.0
P-MW-08	I	10/4/07	31710	6.47	32.57	44400	7.21	26100	26.1	12600	3.23	1840	294	10 U	10 U	294	0.0657 J	1440	0.787 J	304	27.4	6070	6.8
P-MW-09	S	10/4/07	7860	7.15	6.37	6480	7.45	5220	7.4	748	3.8	2680	300	10 U	10 U	300	0.0495 J	430	4.45	58.4	2.69	1050	0.3
P-MW-10	S	10/2/07	24980	7.01	24.35	33600	6.94	20700	16.3	9280	76.5	3140	197	10 U	10 U	197	0.0787	1090	4.1	291	18.3	5040	3.0
P-MW-11	S	10/2/07	11850	6.81	10.32	12500	6.77	8140	6.36	3240	5.21	2200	317	10 U	10 U	317	0.0469	750	2.9	85.1	3.51	1960	1.5
P-MW-12	S	10/2/07	10340	6.82	88.63	12300	7.12	8000	11.3	3690	3	1040	572	10 U	10 U	572	0.134	468	1.41	99.4	7.29	2040	3.5
P-MW-13	D	10/3/07	18690	7.58	16.8	19300	6.89	12700	13.6	6120	0.5 U	1370	283	10 U	10 U	283	0.0391	604	0.392	186	15.7	3230	4.5
P-MW-14	I	10/3/07	18430	7.70	16.53	19600	6.59	14300	15.2	6320	0.5 U	1280	282	10 U	10 U	282	0.101	997	6.25	156	18.8	2870	4.9
P-MW-14D	I	10/3/07	18430	7.70	16.53	19600	6.77	14600	15.3	6310	0.5 U	1270	287	10 U	10 U	287	0.105	948	7.29	151	21.3	2940	5.0
P-MW-15	S	10/4/07	21950	11.36	20.41	28400	11.80	16300	31.2	8710	0.5 U	658	10 U	71.2	440	511	0.988	1700	0.5 U	2.59	75.6	3190	13.2
P-MW-16	S	10/3/07	36000	6.61	36.48	42400	6.42	31400	35	14800	0.5 U	1320	245	10 U	10 U	245	0.177	3160	6.3	436	9.51	4290	11.2
P-MW-17	D	10/4/07	25470	8.00	25.31	31700	7.66	19100	19.1	9590	0.5 U	1380	286	10 U	10 U	286	0.173	1530	8.33	287	33.5	4120	6.9
P-MW-18	I	10/4/07	39120	7.00	40.28	55100	6.69	31300	33.6	17300	0.5 U	1490	265	10 U	10 U	265	0.128	2930	6	473	32.3	6390	11.6
P-MW-19	S	10/4/07	14480	7.60	12.59	18400	7.80	11500	8.57	4910	0.829 J	1250	216	10 U	10 U	216	0.188	1000	11.9	139	9.98	2110	3.9
P-MW-20	I	10/2/07	34770	6.87	35.88	43900	6.81	26900	36.3	14300	0.5 U	2520	272	10 U	10 U	272	0.0881	1410	4.87	366	24	6810	5.7
P-MW-21	S	10/2/07	38890	7.00	41.86	50200	6.99	32400	44.7	16900	3	2790	307	10 U	10 U	307	0.132	798	2.67	230	23.2	8590	6.1
P-MW-22	S	10/2/07	21690	6.76	20.8	15200	6.71	12500	13.5	4690	0.2 U	182	710	10 U	10 U	710	1.9	524	3.39	210	8.76	2240	25.8

Notes:

- S Shallow well
- I Intermediate well
- D Deep well
- J Analyte detected between sample quantification limit and reporting limit
- U Analyte not detected at the sample quantification limit
- mg/L Milligrams per liter
- ppm Parts per million
- S.U. pH standard units
- TDS Total dissolved solids
- uS/cm Microsiemens per centimeter
- umhos/cm Micromhos per centimeter

TABLE 3. SOIL SAMPLING RESULTS

Sample ID	Sample Date	Sample Description/Note	Sample Depth feet	Laboratory Results											
				Conductivity umhos/cm	pH S.U.	Anions				Cations					
						Bromide mg/kg	Chloride mg/kg	Nitrate-N mg/kg	Sulfate mg/kg	Barium mg/kg	Calcium mg/kg	Iron mg/kg	Magnesium mg/kg	Potassium mg/kg	Sodium mg/kg
P-SS-01	3/29/07	Ditch Near P-CPT-17	0.2-0.7	22700		140	19500		788	215	48400	17600	8810	7380	11300
P-SS-02	3/29/07	Ditch Near P-CPT-19	0.1-0.5	1470		6.83 U	1020		529	302	40400	17800	7770	7140	1020
P-SS-03	3/29/07	Ditch Near P-CPT-04	0.1-0.5	12000		94.8	8430		2670	263	40400	16000	7720	6300	7110
P-SS-04	3/29/07	Next to P-CPT-03	2-4	10200		22.9	9440		654	235	20100	18600	7560	6320	8760
P-SS-05	3/29/07	Next to P-CPT-02	4-6	4080		6.03 U	2180		842	230	48100	15200	6400	5120	2520
P-SS-05	3/29/07	Duplicate	4-6	3980		6.07 U	2100		1070	271	48800	14800	6050	4990	2590
P-SS-06	3/29/07	Next to P-CPT-17	5-7	2940		10.4	1640		1340	237	72200	17700	8710	7480	3600
P-SS-07	3/29/07	Next to P-CPT-08	4-6	2610		6.5 U	33		5750	262	27100	24200	9990	7860	2330
P-SS-08	3/29/07	Next to P-CPT-20	4-6	5900		6.87 U	1050		13500	297	34600	25500	10600	8750	4070
P-SS-09	3/29/07	Next to P-CPT-11	4-6	3200		6.81	2280		560	259	40200	19100	9050	6730	2920
P-SS-10	3/29/07	Next to P-CPT-27	3-5	5270		6.3 U	1770		1510	306	53600	17300	8120	6190	3440
P-SS-11	3/29/07	Ditch Near P-CPT-23	0.2-0.7	4730		6.36 U	2520		806	288	28200	18100	7480	6350	3550
P-SS-12	3/30/07	Next to P-CPT-33	2-4	7150		44.8	6290		14 U	3690	26100	26900	9960	9360	8060
P-SS-13	3/30/07	Next to P-CPT-29	3-5	717		6.59 U	107		464	371	58700	23000	11100	9350	2420
P-SB-01	3/30/07	Correlation Boring (CPT-10)	3-6	9700		40.3	7720		12 U	251	12600	20700	6800	6290	10600
P-SB-01	3/30/07	Correlation Boring (CPT-10)	7-10	8980		40.9	7520		29.8	260	17900	14800	5450	4880	7790
P-SB-01	6/28/07	P-MW-01	3-5	16900	7.74	16.8	6250	6.01	9240	192	32700	15500	6060	5530	6980
P-SB-01	6/28/07	P-MW-01	10-12	17100	7.70	19.3	7030	6.03	3520	118	21400	15500	5560	5440	7640
P-SB-02	6/28/07	P-MW-02	5-7	8020	7.73	17.6	6430	6.35	358	468	28400	17100	7050	6100	7620
P-SB-02	6/28/07	P-MW-02	8-10	14800	7.72	17	6240	6.14	8890	164	45600	14700	5600	5190	6990
P-SB-03	6/28/07	P-MW-03	6-8	6430	7.52	11.3	4870	6.31	1120	203	51400	20500	8680	7410	3860
P-SB-03	6/28/07	P-MW-03	10-12	6880	7.43	10.9	4810	6.45	390	96.2	21200	23400	9260	8410	4230
P-SB-04	6/28/07	P-MW-04	9-11	7660	8.15	17.9	5800	6.04	58	297	3390	10200	3370	3820	5450
P-SB-04	6/28/07	P-MW-04	14-16	5190	7.89	8.97	3090	5.68	303	88.8	116000	11000	3960	3360	2560
P-SB-07	6/30/07	P-MW-07	6-8	499	8.30	5.88	5.88	5.88	410	137	12700	11300	3850	2890	446
P-SB-07	6/30/07	P-MW-07	8-10	615	8.53	5.84	5.84	5.84	395	60.7	22300	12900	4300	3380	792
P-SB-10	7/1/07	P-MW-10	5-7	545	8.21	6.22	41.2	6.22	456	287	60500	18800	8000	6800	1010
P-SB-10	7/1/07	P-MW-10	8-10	2140	7.61	6.13	165	8.44	4340	114	38800	18400	7440	6730	728
P-SB-11	7/2/07	P-MW-11	8-9	3280	7.53	5.83	1620	5.83	246	58.4	3920	12700	4460	3740	1710
P-SB-11	7/2/07	P-MW-11	11-12	3020	7.59	5.53	1470	5.53	199	37.3	2980	10600	3640	3100	1250
P-SB-12	7/5/07	P-MW-12	7-8	3470	8.04	6.68	2260	6.68	185	713	50600	23100	9550	8700	2650
P-SB-12	7/5/07	P-MW-12	9-10	3470	8.63	13.7	714	13.7	408	53.9	22600	21000	7380	6610	2790
P-SB-13	7/12/07	P-MW-13	7-8	3980	7.61	11.9	1360	5.85	2390	78.1	48200	12200	8880	6920	3590
P-SB-13	7/12/07	P-MW-13	10-12	3290	7.53	16.9	1570	5.96	346	282	8200	9840	6980	5950	2970
P-SB-16	7/12/07	P-MW-16	10-11	3870	7.32	5.94	2100	5.94	244	311	36200	16000	10600	9290	3660
P-SB-16	7/12/07	P-MW-16	12-13	4520	7.31	6.14	2510	6.14	330	272	50900	15800	6040	9590	3690
P-SB-16-D	7/12/07	P-MW-16 Duplicate	12-13	4140	7.38	6.07	2520	6.07	428	1470	123000	14800	6400	9200	3760
P-SB-17	7/13/07	P-MW-17	8-10	2990	7.59	9.86	1120	6.58	2300	532	36900	23300	8980	9240	3990
P-SB-17	7/13/07	P-MW-17	11-12	1310	8.14	12.4	258	12.4	541	44.2	4090	13600	8220	7930	2550
P-SB-20	7/14/07	P-MW-20	7-8	9010	8.00	10.3	4720	6.19	3330	179	20700	18100	6420	5820	7400
P-SB-20-D	7/14/07	P-MW-20 Duplicate	7-8	9560	7.81	11.3	5190	6.31	3910	216	22200	18000	6320	5640	7290
P-SB-20	7/14/07	P-MW-20	10-12	5010	8.16	6.11	2590	6.11	1320	138	31400	18700	6660	5990	6060
P-SB-22	7/14/07	P-MW-22	10-12	755	8.74	12.5	39.9	12.5	370	187	34200	22600	9080	7250	2060
P-SB-22	7/14/07	P-MW-22	9-10	836	8.75	11.8	22.7	11.8	449	140	34000	14300	4750	4520	996

Notes:

- J Analyte detected between sample quantification limit and reporting limit
- U Analyte not detected at the sample quantification limit
- mg/kg Milligrams per kilogram
- S.U. pH standard units
- umhos/cm Micromhos per centimeter

TABLE 4. SURFACE WATER AND GROUNDWATER GAUGING RESULTS

Location ID	Screen Interval	Date Water Level Measured	Ground Elevation	Measuring Point Elevation	Depth to Water	Total Depth of Well	Water Elevation
			feet	feet	feet btoc	feet btoc	feet amsl
P-MW-01	D	10/2/07	54.55	57.61	13.25	54.55	44.36
P-MW-01	D	10/24/07	54.55	57.61	13.34	NM	44.27
P-MW-01	D	12/6/07	54.55	57.61	13.34	NM	44.27
P-MW-02	I	10/2/07	54.54	57.25	12.10	45.67	45.15
P-MW-02	I	10/24/07	54.54	57.25	30.65	NM	26.60
P-MW-02	I	12/6/07	54.54	57.25	17.19	NM	40.06
P-MW-03	S	10/24/07	51.61	54.65	11.25	28.51	43.40
P-MW-03	S	12/6/07	51.61	54.65	23.07	28.51	31.58
P-MW-04	D	10/3/07	52.51	54.46	9.22	54.03	45.24
P-MW-04	D	10/24/07	52.51	54.46	10.42	NM	44.04
P-MW-04	D	12/6/07	52.51	54.46	9.14	NM	45.32
P-MW-05	I	10/3/07	52.05	54.72	9.75	42.68	44.97
P-MW-05	I	10/24/07	52.05	54.72	10.35	NM	44.37
P-MW-05	I	12/6/07	52.05	54.72	10.61	NM	44.11
P-MW-06	S	10/3/07	51.86	55.16	11.12	28.40	44.04
P-MW-06	S	10/24/07	51.86	55.16	11.85	NM	43.31
P-MW-06	S	12/6/07	51.86	55.16	12.55	NM	42.61
P-MW-07	D	10/3/07	50.01	52.84	5.51	56.65	47.33
P-MW-07	D	10/24/07	50.01	52.84	7.47	NM	45.37
P-MW-07	D	12/6/07	50.01	52.84	7.71	NM	45.13
P-MW-08	I	10/3/07	50.08	52.54	6.16	42.60	46.38
P-MW-08	I	10/24/07	50.08	52.54	7.03	NM	45.51
P-MW-08	I	12/6/07	50.08	52.54	7.41	NM	45.13
P-MW-09	S	10/3/07	49.84	52.43	6.06	27.75	46.37
P-MW-09	S	10/24/07	49.84	52.43	6.58	NM	45.85
P-MW-09	S	12/6/07	49.84	52.43	6.95	NM	45.48
P-MW-10	S	10/1/07	53.54	56.14	8.10	27.52	48.04
P-MW-10	S	10/24/07	53.54	56.14	8.72	NM	47.42
P-MW-10	S	12/6/07	53.54	56.14	9.30	NM	46.84
P-MW-11	S	10/1/07	49.55	51.90	16.54	27.66	35.36
P-MW-11	S	10/24/07	49.55	51.90	16.74	NM	35.16
P-MW-11	S	12/6/07	49.55	51.90	17.03	NM	34.87
P-MW-12	S	10/1/07	47.41	49.78	5.15	27.75	44.63
P-MW-12	S	10/24/07	47.41	49.78	6.54	NM	43.24
P-MW-12	S	12/6/07	47.41	49.78	7.64	NM	42.14
P-MW-13	D	10/2/07	58.04	60.25	12.30	53.07	47.95
P-MW-13	D	10/24/07	58.04	60.25	12.78	NM	47.47
P-MW-13	D	12/6/07	58.04	60.25	13.06	NM	47.19
P-MW-14	I	10/2/07	58.30	60.72	13.47	40.15	47.25
P-MW-14	I	10/24/07	58.30	60.72	14.20	NM	46.52
P-MW-14	I	12/6/07	58.30	60.72	14.55	NM	46.17
P-MW-15	S	10/2/07	58.10	61.20	14.09	21.48	47.11
P-MW-15	S	10/24/07	58.10	61.20	14.68	NM	46.52
P-MW-15	S	12/6/07	58.10	61.20	15.13	NM	46.07
P-MW-16	S	10/2/07	54.18	56.80	14.72	28.05	42.08
P-MW-16	S	10/24/07	54.18	56.80	15.50	NM	41.30
P-MW-16	S	12/6/07	54.18	56.80	15.81	NM	40.99
P-MW-17	D	10/3/07	49.62	51.54	4.52	62.70	47.02
P-MW-17	D	10/24/07	49.62	51.54	35.34	NM	16.20
P-MW-17	D	12/6/07	49.62	51.54	13.34	NM	38.20
P-MW-18	I	10/3/07	49.58	52.03	10.04	40.75	41.99
P-MW-18	I	10/24/07	49.58	52.03	10.44	NM	41.59
P-MW-18	I	12/6/07	49.58	52.03	11.05	NM	40.98
P-MW-19	S	10/3/07	49.62	52.34	11.64	24.05	40.70
P-MW-19	S	10/24/07	49.62	52.34	11.14	NM	41.20
P-MW-19	S	12/6/07	49.62	52.34	11.13	NM	41.21

TABLE 4. SURFACE WATER AND GROUNDWATER GAUGING RESULTS

Location ID	Screen Interval	Date Water Level Measured	Ground Elevation	Measuring Point Elevation	Depth to Water	Total Depth of Well	Water Elevation
			feet	feet	feet btoc	feet btoc	feet amsl
P-MW-20	I	10/2/07	49.99	52.28	5.14	41.13	47.14
P-MW-20	I	10/24/07	49.99	52.28	7.22	NM	45.06
P-MW-20	I	12/6/07	49.99	52.28	7.75	NM	44.53
P-MW-21	S	10/2/07	49.95	52.43	7.83	28.24	44.60
P-MW-21	S	10/24/07	49.95	52.43	8.52	NM	43.91
P-MW-21	S	12/6/07	49.95	52.43	8.80	NM	43.63
P-MW-22	S	10/1/07	55.59	58.31	9.59	27.67	48.72
P-MW-22	S	10/24/07	55.59	58.31	12.50	NM	45.81
P-MW-22	S	12/6/07	55.59	58.31	12.78	NM	45.53
P-D2-MW-12	S	10/3/07	52.94	56.04	6.89	25.72	49.15
P-D2-MW-12	S	10/24/07	52.94	56.04	7.48	NM	48.56
P-D2-MW-12	S	12/6/07	52.94	56.04	8.08	NM	47.96
P-D3-MW-27	S	10/3/07	54.57	57.20	11.32	23.54	45.88
P-D3-MW-27	S	10/24/07	54.57	57.20	11.38	NM	45.82
P-D3-MW-27	S	12/6/07	54.57	57.20	11.42	NM	45.78
P-SG-02	PC	10/24/07	NA	64.43	21.40	NM	43.03
P-SG-02	PC	12/6/07	NA	64.43	21.40	NM	43.03
P-SG-11	PC	10/24/07	NA	54.55	27.00	NM	27.55
P-SG-11	PC	12/6/07	NA	54.55	27.00	NM	27.55
P-SG-15	PC	10/24/07	NA	NM	20.93	NM	NA

Notes:

- S Shallow well
- I Intermediate well
- D Deep well
- amsl Above mean sea level
- btoc Below top of casing
- NM Not measured

APPENDIX A

FIELD FORMS AND NOTES

MONITORING WELL DEVELOPMENT FORM

10/2/07

	WELL # P-MW-14	Client	Railroad Commission of Texas	Date & Time	Start	1315
		Site	Petronila Creek		Finish	1500
Development Equipment	Mini-Mondor					
Turbidity Meter	Oakton					

Actual Time	Development Action (e.g., surge, pump, bail, etc)	Volume Extracted (gal)	Turbidity (NTUs)	Water Level (ft to)
1315	Gauge			13.47
1355	Pump - surge			
1400	Pump - dirty silty	4.5		
1405	Pump - surge	0.75		
1415	Pump - surge - silty	0.75		
1425	Pump - silty	0.25	OR	
1435	Pump - silty	0.25		
1446	Pump - silty	0.50		
1454	Pump - slightly silty	0.25	OR	
1500	Gauge	total removed 7.25		38.25
	TD 41.68 (hard bottom)			
	~ 2.8 ft SU			

MONITORING WELL DEVELOPMENT FORM

10/21/07

955

	WELL # <u>PMW-20</u>	Client	Railroad Commission of Texas	Date & Time	Start	<u>1080</u>
		Site	Petronila Creek		Finish	<u>1110</u>
Development Equipment	<u>Mini-Monitors</u>					
Turbidity Meter	<u>Oakton</u>					

Actual Time	Development Action (e.g., surge, pump, bail, etc)	Volume Extracted (gal)	Turbidity (NTUs)	Water Level (ft to)
0955	Gage			5.14
1008	Pump - surge			
1012	Pump - silty - slightly silty	5	302	NM
1017	Pump - dry	1.5		
1021	Pump - surge			
1023	Pump - silty	0.5		
1028	Pump - silty	0.5	OFR	
1033	Pump - surge	0.5		
1035	Pump - dry	0.5		
1042	Pump - dry	0.25		
1051	Pump - dry silty	0.25		
1055	Pump - surge			
1105	Pump - dry - silty	0.25	OFR	
1110	Gage			39.35
	TB (head bottom)			42.135
		total removed		
		9.25		

MONITORING WELL DEVELOPMENT FORM

10/26/07

	WELL # P-MW-21	Client	Railroad Commission of Texas	Date & Time	Start	10/25
		Site	Petronila Creek		Finish	1135
Development Equipment	Mini-Monson					
Turbidity Meter	Oakton					

Actual Time	Development Action (e.g., surge, pump, bail, etc)	Volume Extracted (gal)	Turbidity (NTUs)	Water Level (ft to)
1005	Gauge			27.83
1045	Pump-surge			
1048	Pump-dry silty	4.5		
1053	Pump-surge			
1058	Pump-dry silty	2	638	
1059	Pump-surge			
1102	Pump-dry	1		
1115	Pump ↘ silty/dry	1.25	639	
1123	Pump-dry silty	0.25		
1130	Pump-dry silty	0.25	OR	
1133	Gauge			27.34
		total removed	9.75	

GROUNDWATER SAMPLING FORM

		Sample Location		P-MW-21	
		Client		Railroad Commission of Texas	
		Site		Petronila Creek	
Depth to Water (ft)	Before Sampling	14.70	Sample Collection Time	1436	
	After Sampling	23.21	Purge Method	Disposable bailer	
Total Depth (ft)		28.24	Sample Method	Disposable bailer	
Standing Water Column (ft)		13.54	Water Description	silty tan	
One Purge Volume (gal)		2.25 GAL	Sampling Personnel	CMP BC	

Date	Time	Purge Volume (gal)		Depth to Water (ft)	pH (SU)	Temp (C)	Conductivity (µsiemens/cm)	TDS (ppm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)
		This Period	Cumulative								
10/2/07	1415	2.25	2.25		6.80	26.2	43.21 ms	46.09	+171		NM
	1417	2.25	4.50		7.03	26.1	41.29	44.34	228		↓
	1421	0.5	5.0	Bailed Dry	7.00	26.0	38.89	41.86	+194		↓

APPENDIX B

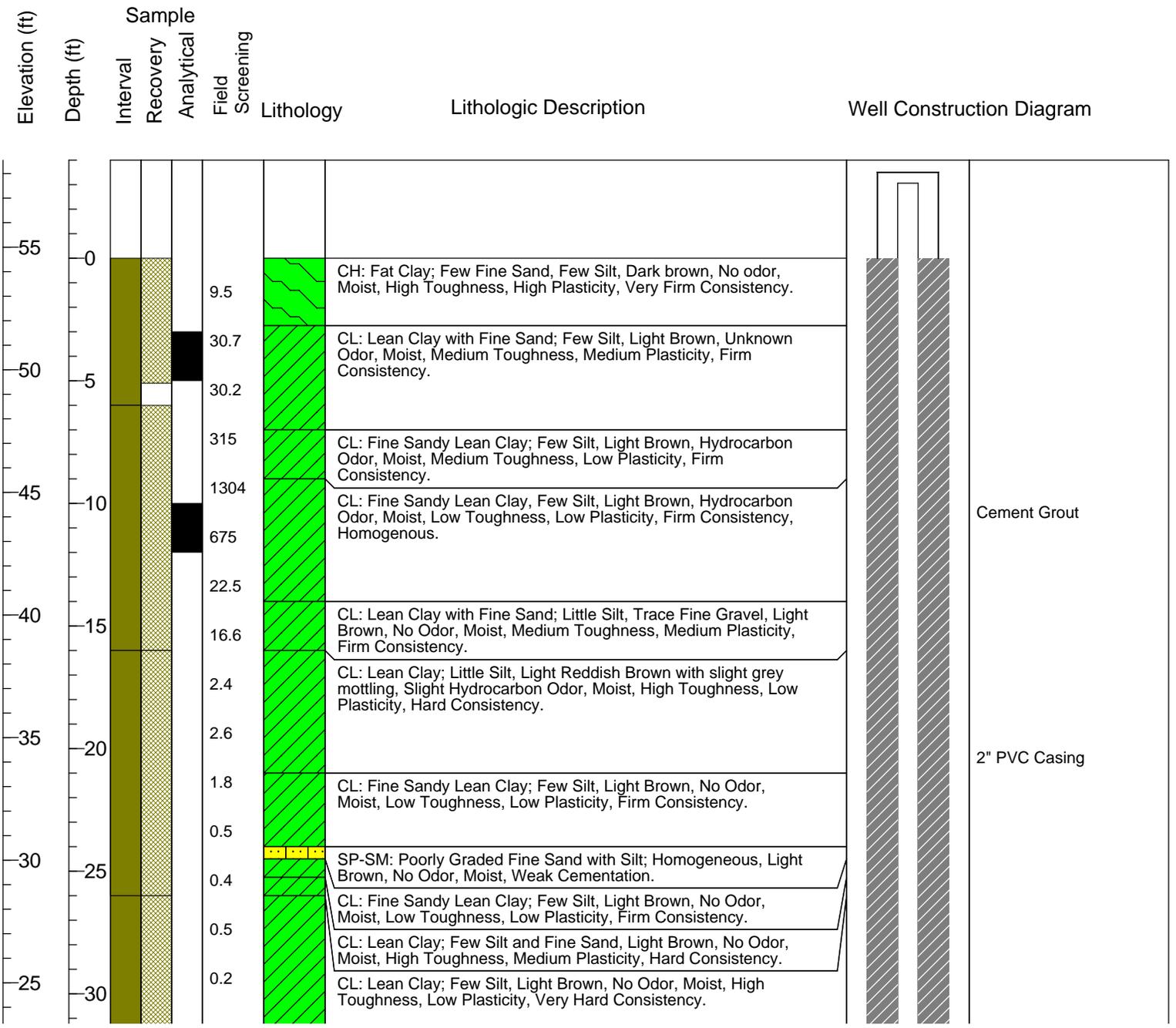
SOIL BORING/MONITORNG WELL COMPLETION LOGS

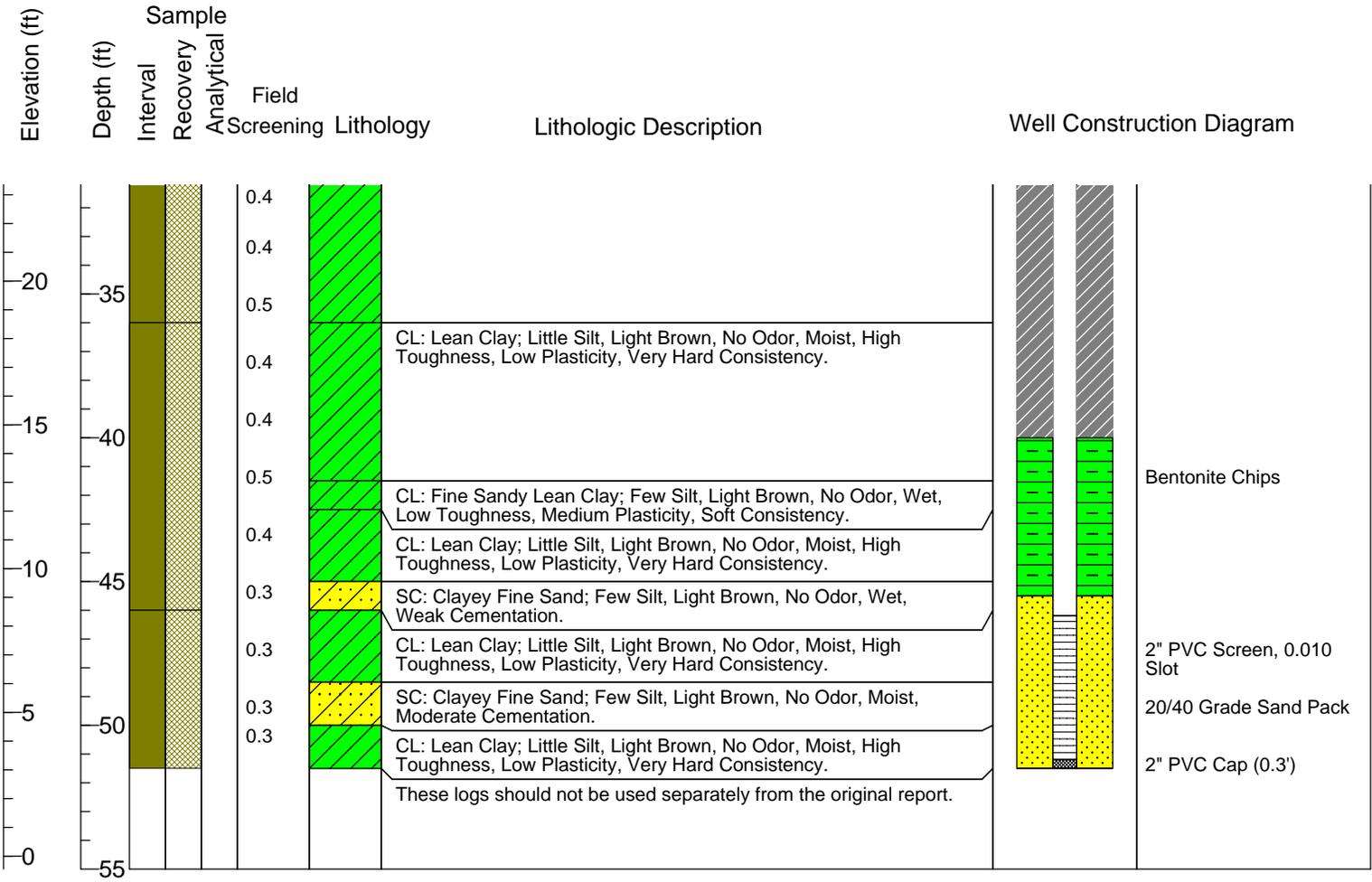


BORING LOG and WELL CONSTRUCTION

P-MW-01

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/28/07
Address: Driscoll, TX		Finish Date: 6/28/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 51.5	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1236994.191
Blow Count Method: NA		Y-Coordinate: 17139501.58
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 54.55
Well Depth (ft bgs): 51.49	Well Depth (ft toc): 54.55	Well Elevation (ft): 57.61
Casing Length (ft): 49.25	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Stick-up and Bollards		Depth to Water (ft toc): 13.34
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1116



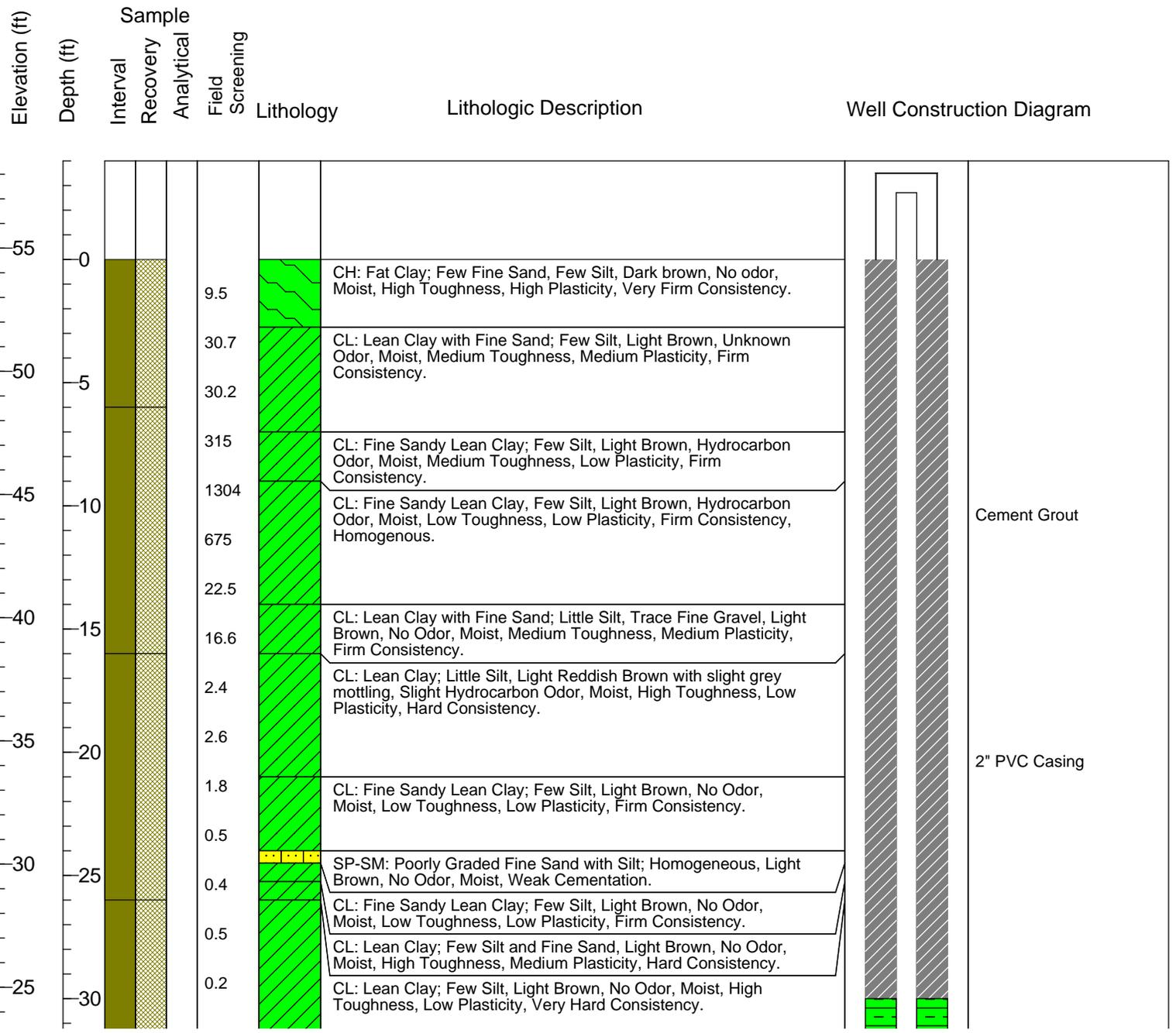


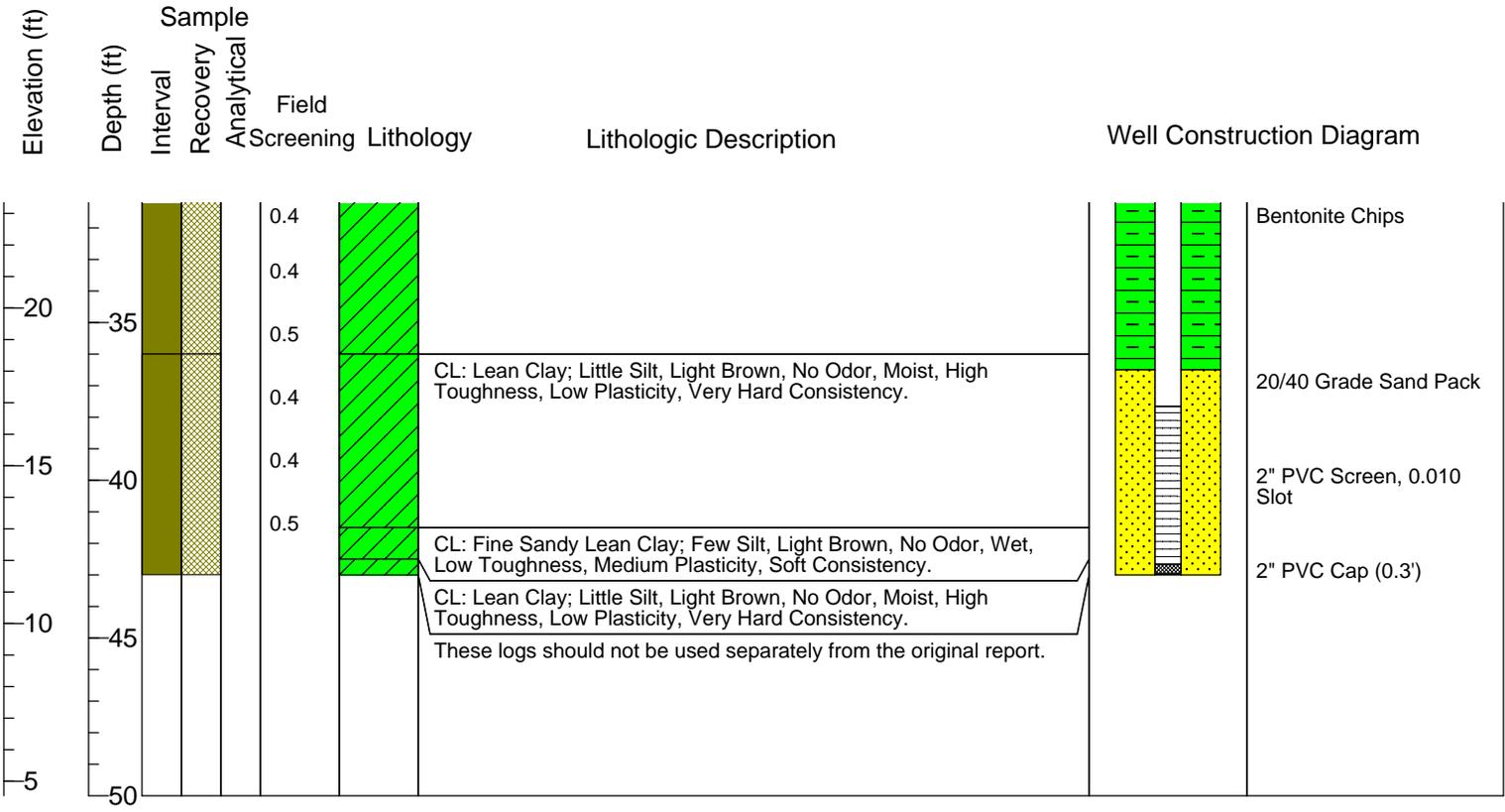


BORING LOG and WELL CONSTRUCTION

P-MW-02

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/28/07
Address: Driscoll, TX		Finish Date: 6/28/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 43	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1236990.377
Blow Count Method: NA		Y-Coordinate: 17139505.54
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 54.54
Well Depth (ft bgs): 42.96	Well Depth (ft toc): 45.67	Well Elevation (ft): 57.25
Casing Length (ft): 40.46	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Stick-up and Bollards		Depth to Water (ft toc): 30.65
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1114



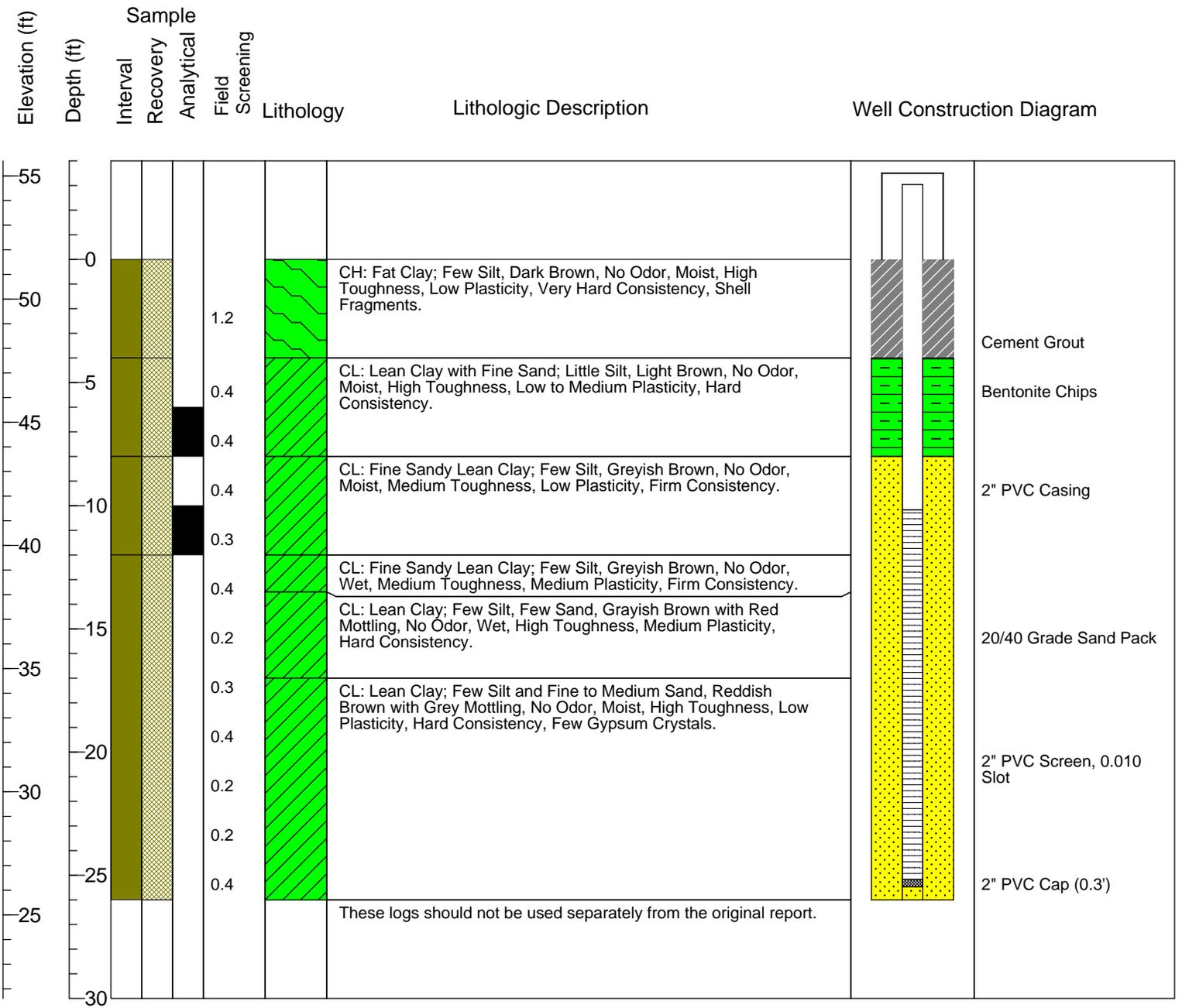




BORING LOG and WELL CONSTRUCTION

P-MW-03

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/28/07
Address: Driscoll, TX		Finish Date: 6/28/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 26	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1239702.883
Blow Count Method: NA		Y-Coordinate: 17136634.1
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 51.61
Well Depth (ft bgs): 25.47	Well Depth (ft toc): 28.51	Well Elevation (ft): 54.65
Casing Length (ft): 23.21	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 Foot x 2 Foot Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 11.25
Well Development: Disposable PVC bailer		Date/Time: 10/24/07, 1510

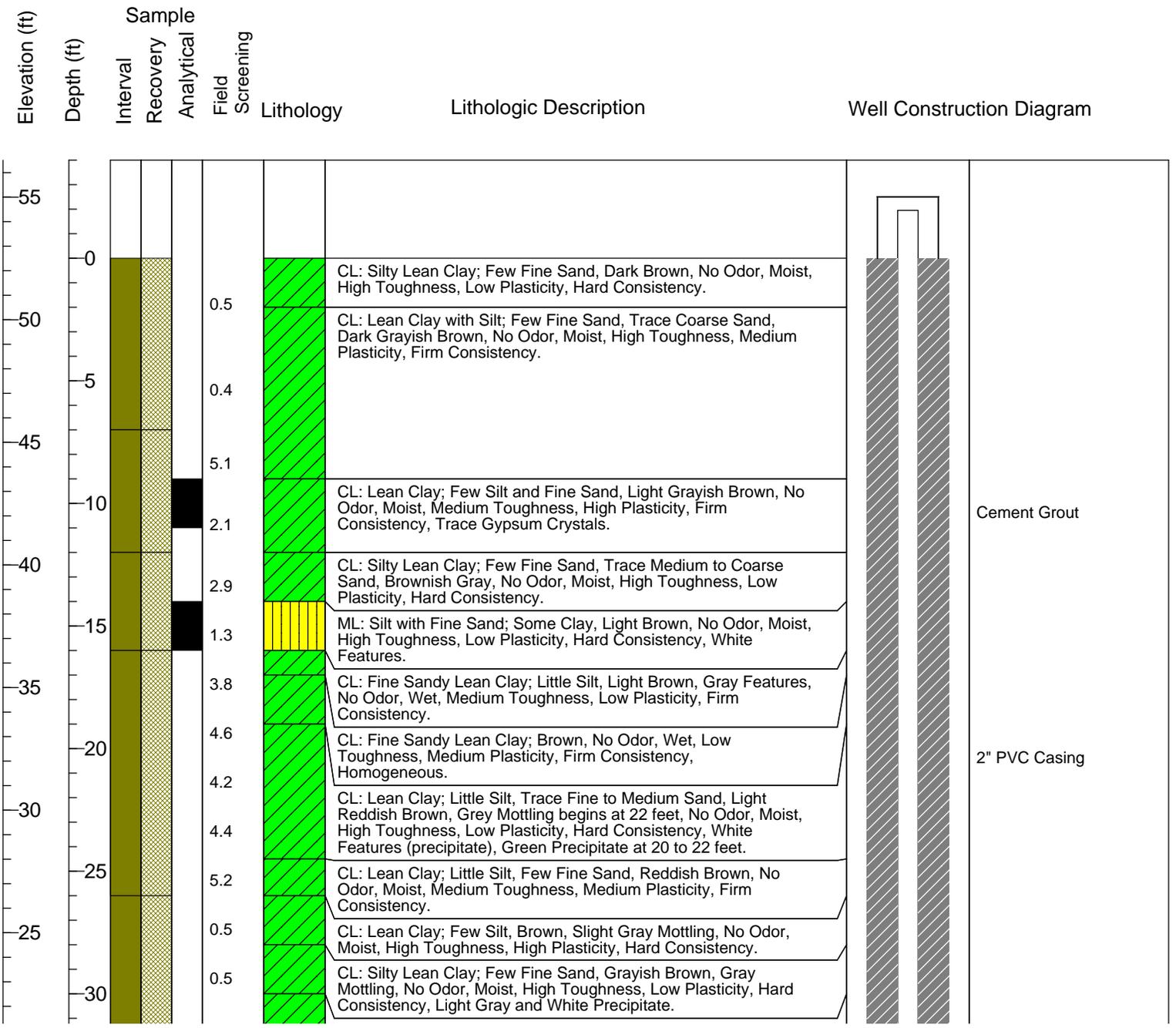




BORING LOG and WELL CONSTRUCTION

P-MW-04

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/29/07
Address: Driscoll, TX		Finish Date: 6/29/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 60	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1235768.611
Blow Count Method: NA		Y-Coordinate: 17135882.25
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 52.51
Well Depth (ft bgs): 52.40	Well Depth (ft toc): 54.35	Well Elevation (ft): 54.46
Casing Length (ft): 49.05	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Stick-up and Bollards		Depth to Water (ft toc): 10.42
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1236

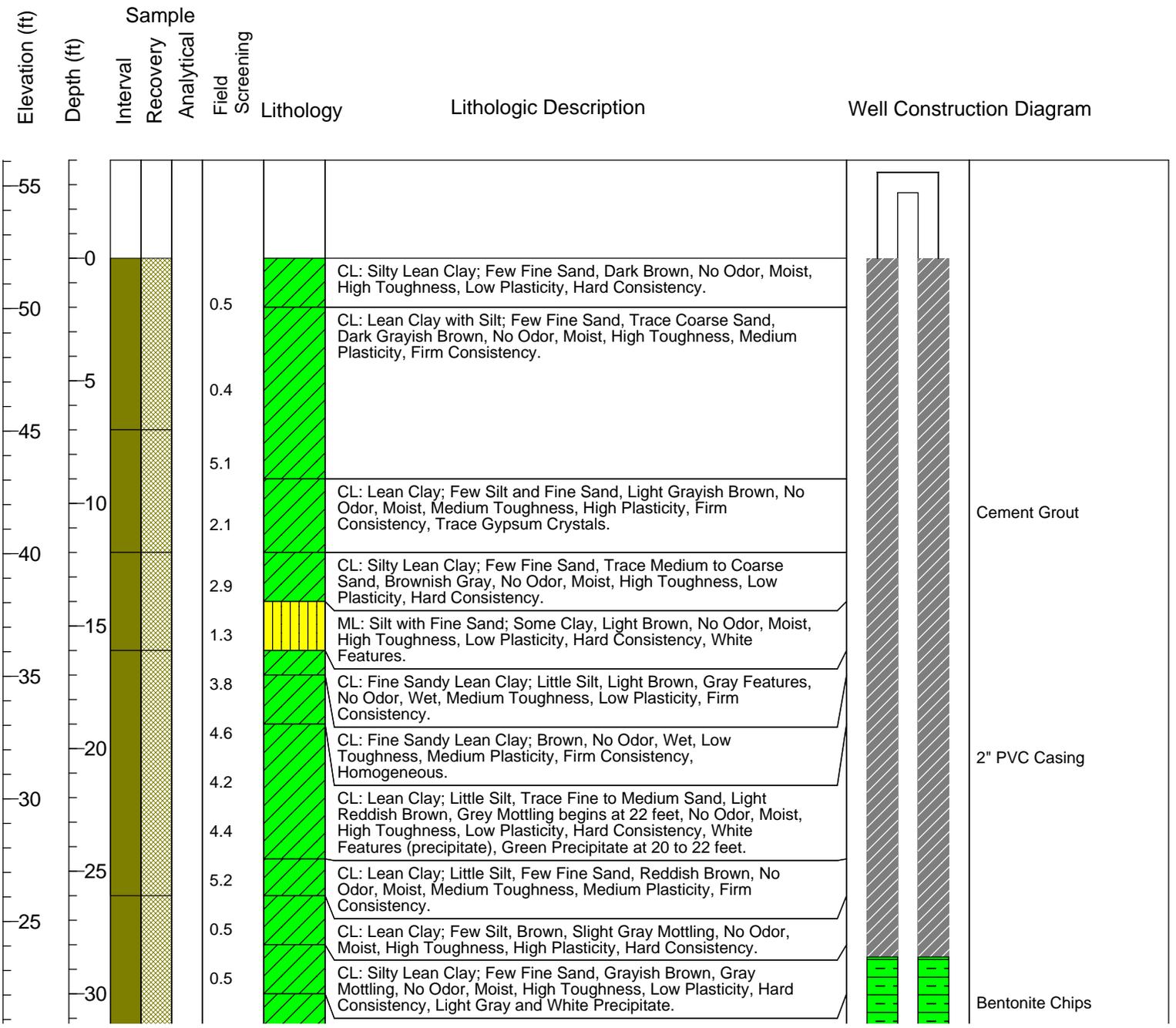




BORING LOG and WELL CONSTRUCTION

P-MW-05

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/29/07
Address: Driscoll, TX		Finish Date: 6/29/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 40.4	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1235767.552
Blow Count Method: NA		Y-Coordinate: 17135876.69
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 52.05
Well Depth (ft bgs): 40.01	Well Depth (ft toc): 42.68	Well Elevation (ft): 54.72
Casing Length (ft): 37.38	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Stick-up and Bollards		Depth to Water (ft toc): 10.35
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1234

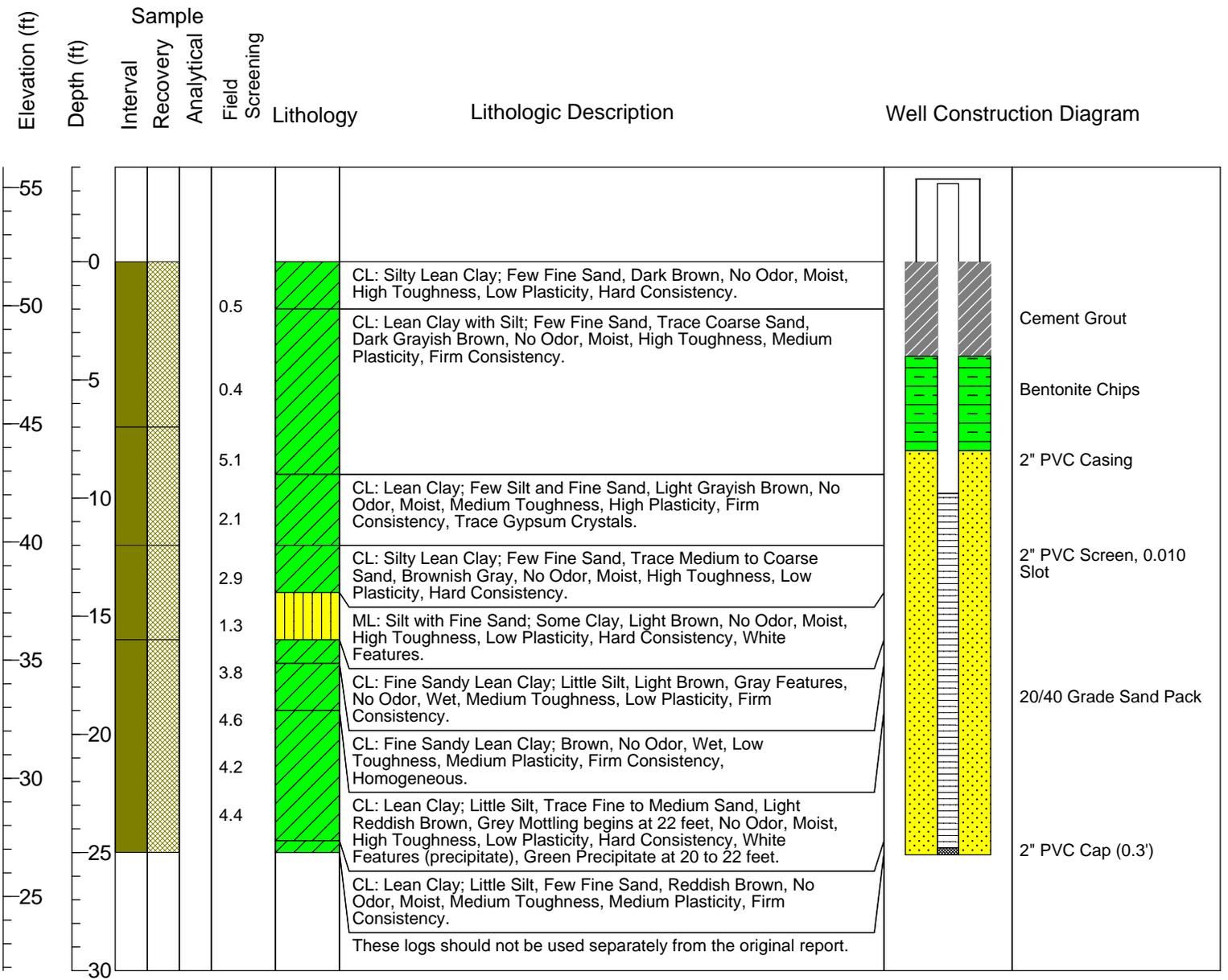




BORING LOG and WELL CONSTRUCTION

P-MW-06

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/29/07
Address: Driscoll, TX		Finish Date: 6/29/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 25.1	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1235766.904
Blow Count Method: NA		Y-Coordinate: 17135872.28
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 51.86
Well Depth (ft bgs): 25.10	Well Depth (ft toc): 28.40	Well Elevation (ft): 55.16
Casing Length (ft): 23.10	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Stick-up and Bollards		Depth to Water (ft toc): 11.85
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1233

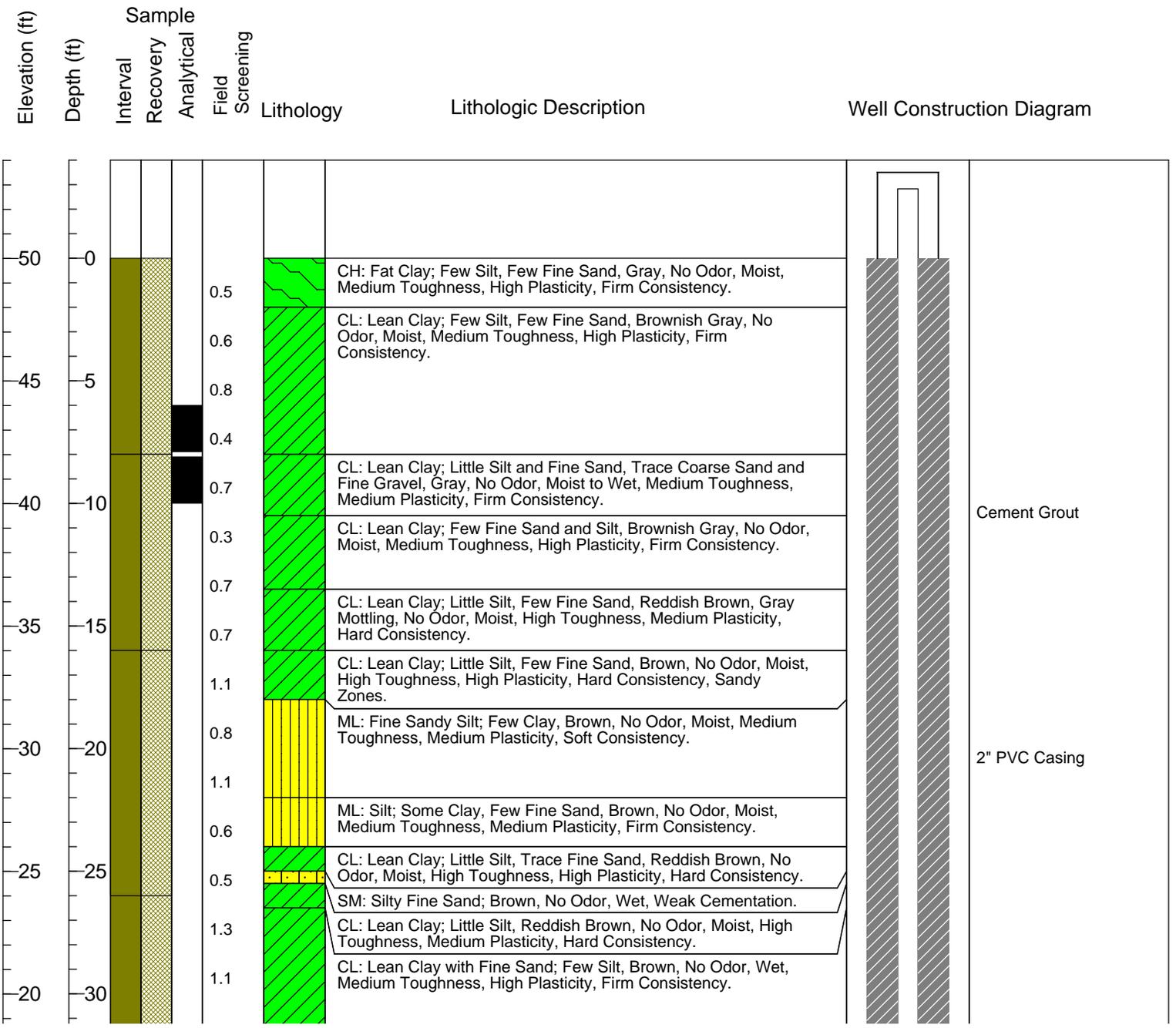


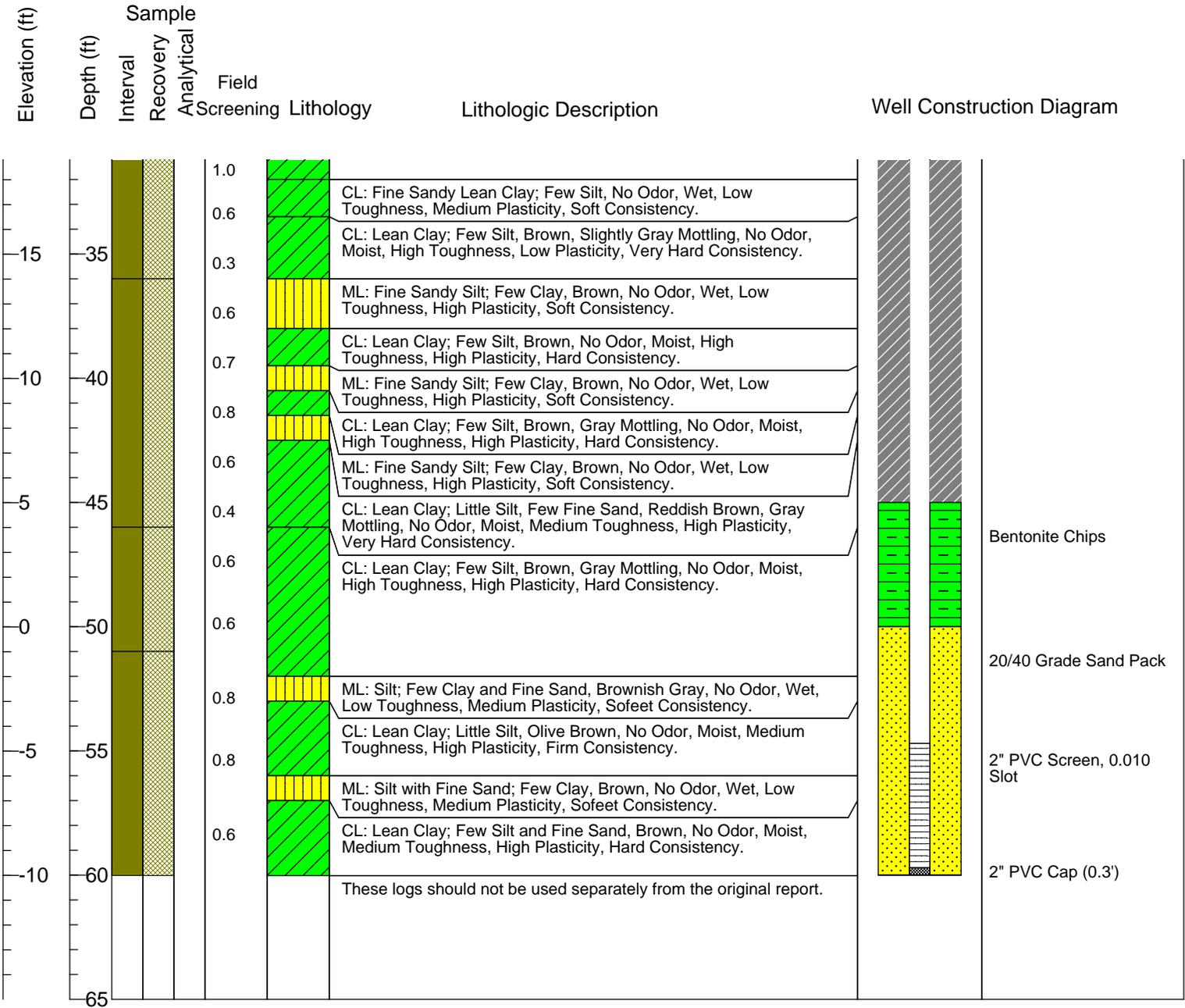


BORING LOG and WELL CONSTRUCTION

P-MW-07

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/30/07
Address: Driscoll, TX		Finish Date: 6/30/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 60	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1237073.458
Blow Count Method: NA		Y-Coordinate: 17134399.44
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 50.01
Well Depth (ft bgs): 57.19	Well Depth (ft toc): 60.02	Well Elevation (ft): 52.84
Casing Length (ft): 54.72	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 7.47
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1257



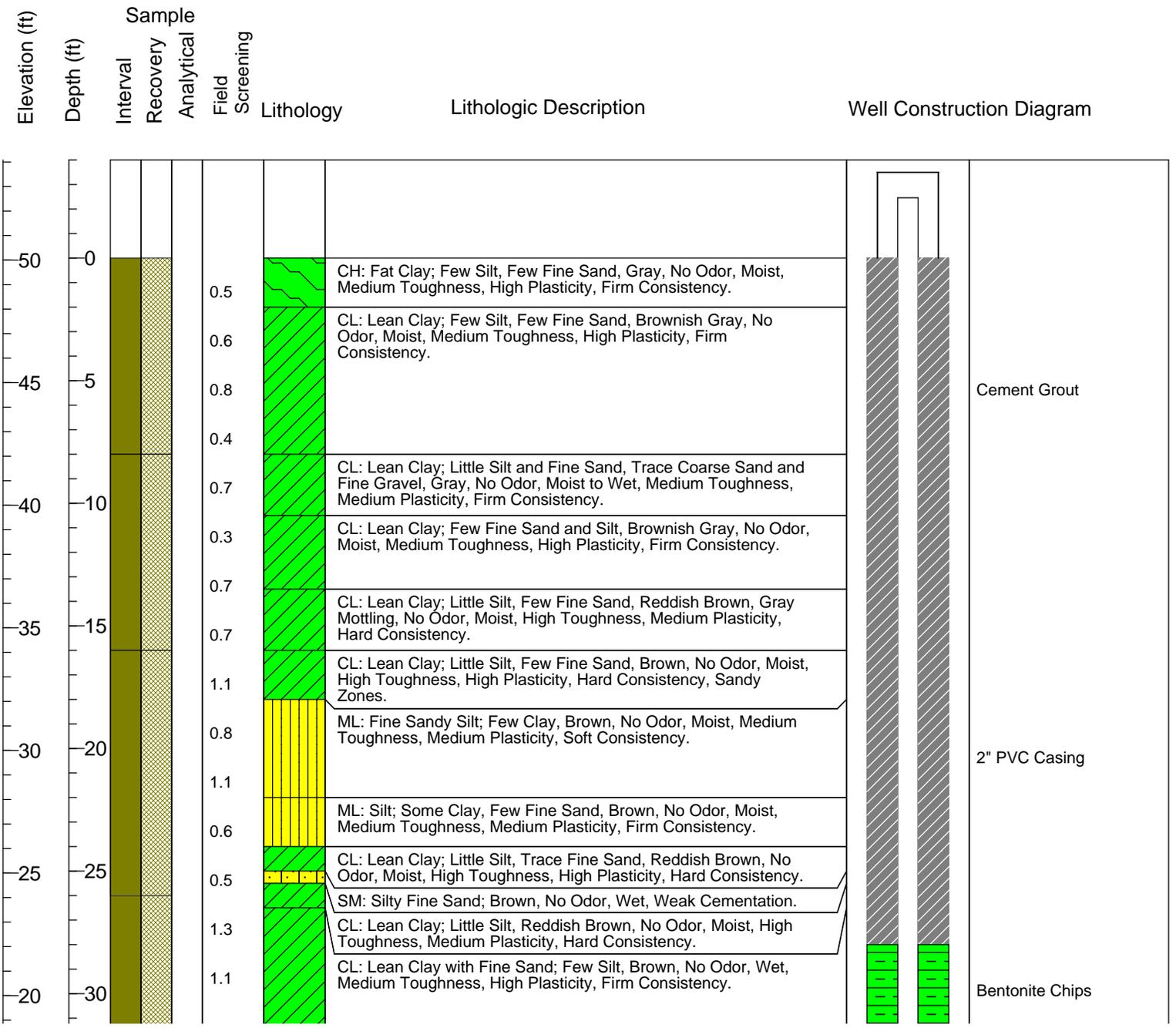




BORING LOG and WELL CONSTRUCTION

P-MW-08

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 6/30/07
Address: Driscoll, TX		Finish Date: 6/30/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 41	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1237074.351
Blow Count Method: NA		Y-Coordinate: 17134405.2
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 50.08
Well Depth (ft bgs): 40.39	Well Depth (ft toc): 42.85	Well Elevation (ft): 52.54
Casing Length (ft): 37.55	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 7.03
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1259

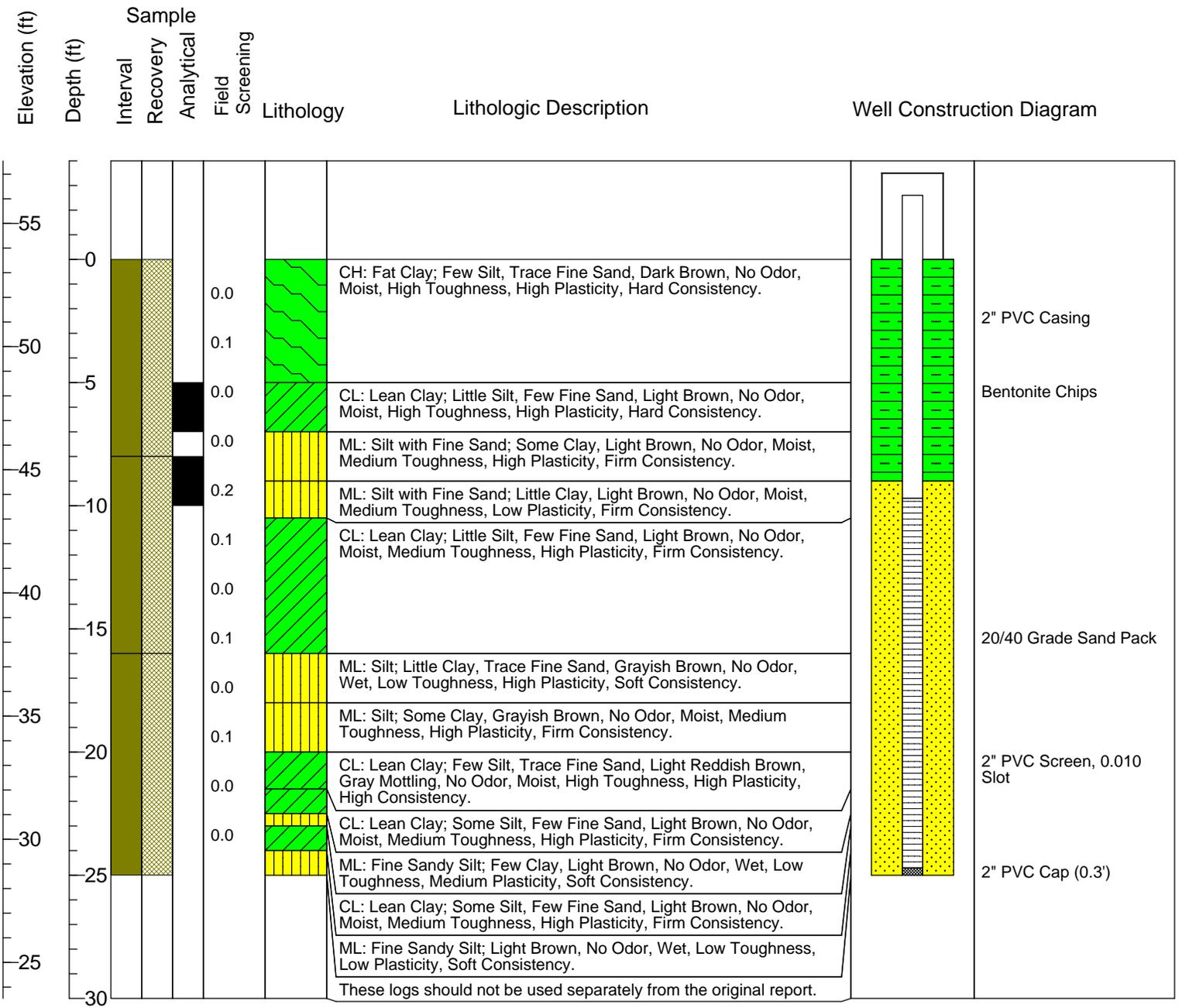




BORING LOG and WELL CONSTRUCTION

P-MW-10

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/1/07
Address: Driscoll, TX		Finish Date: 7/1/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Clark
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 25	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1237382.935
Blow Count Method: NA		Y-Coordinate: 17130967.39
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 53.54
Well Depth (ft bgs): 24.92	Well Depth (ft toc): 27.52	Well Elevation (ft): 56.14
Casing Length (ft): 12.22	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 8.72
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1100

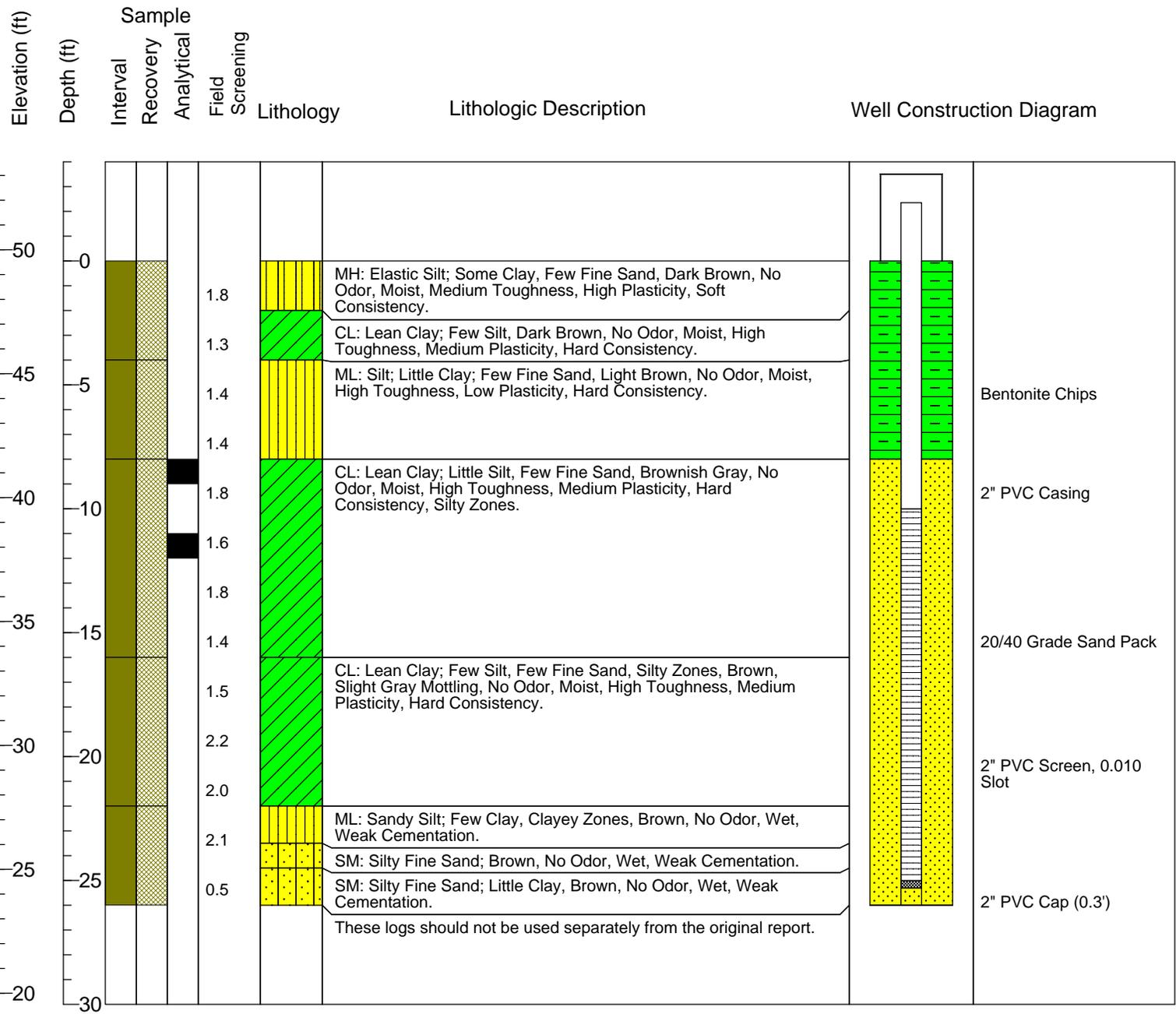




BORING LOG and WELL CONSTRUCTION

P-MW-11

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/3/07
Address: Driscoll, TX		Finish Date: 7/3/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Stine
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 26	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1242513.909
Blow Count Method: NA		Y-Coordinate: 17131070.42
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 49.55
Well Depth (ft bgs): 25.31	Well Depth (ft toc): 27.66	Well Elevation (ft): 51.90
Casing Length (ft): 12.36	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 16.74
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 0900

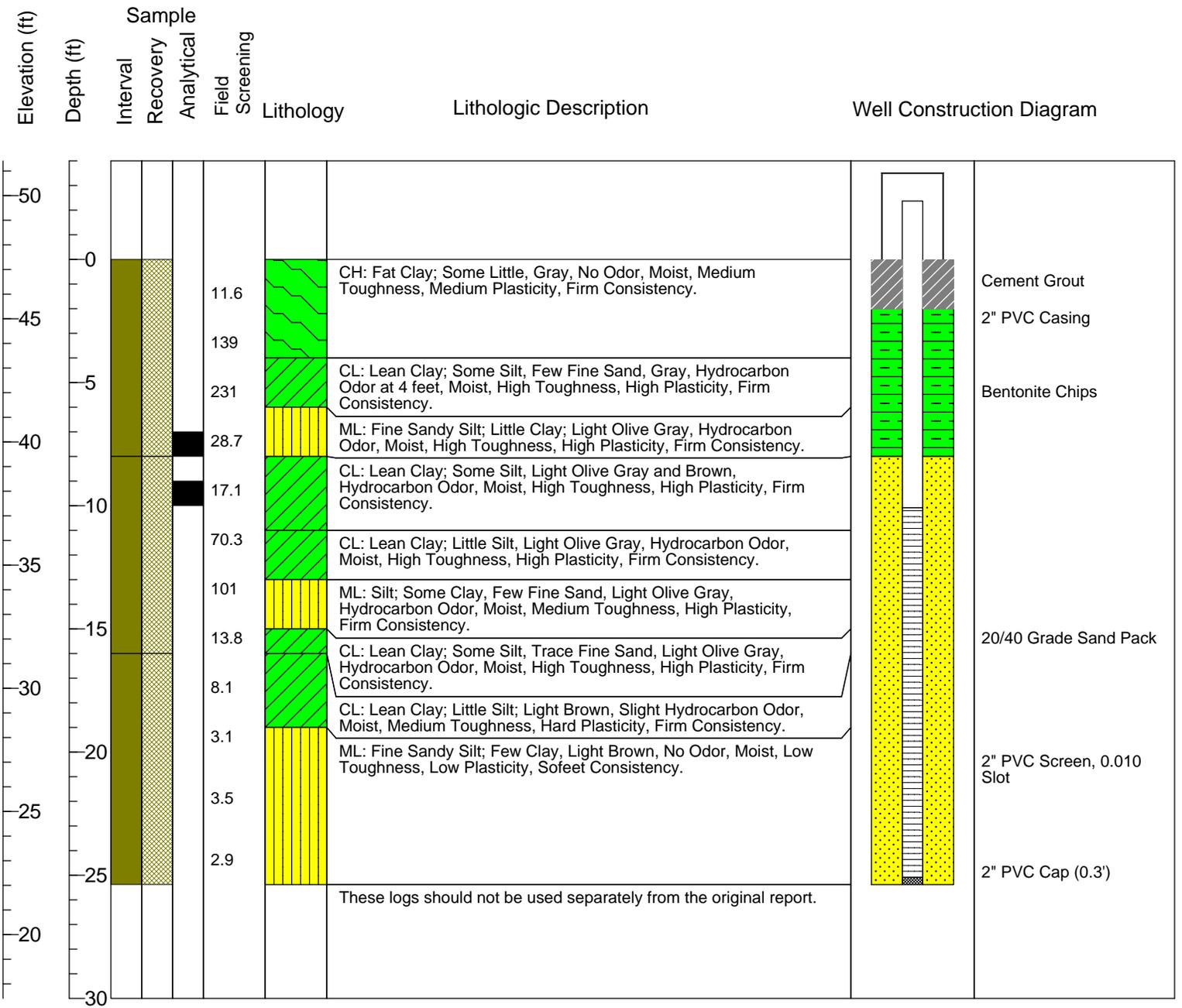




BORING LOG and WELL CONSTRUCTION

P-MW-12

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/5/07
Address: Driscoll, TX		Finish Date: 7/5/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre, D. Stine
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 25.38	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1242479.943
Blow Count Method: NA		Y-Coordinate: 17122495.12
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 47.41
Well Depth (ft bgs): 25.38	Well Depth (ft toc): 27.75	Well Elevation (ft): 49.78
Casing Length (ft): 12.45	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 6.54
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 0925

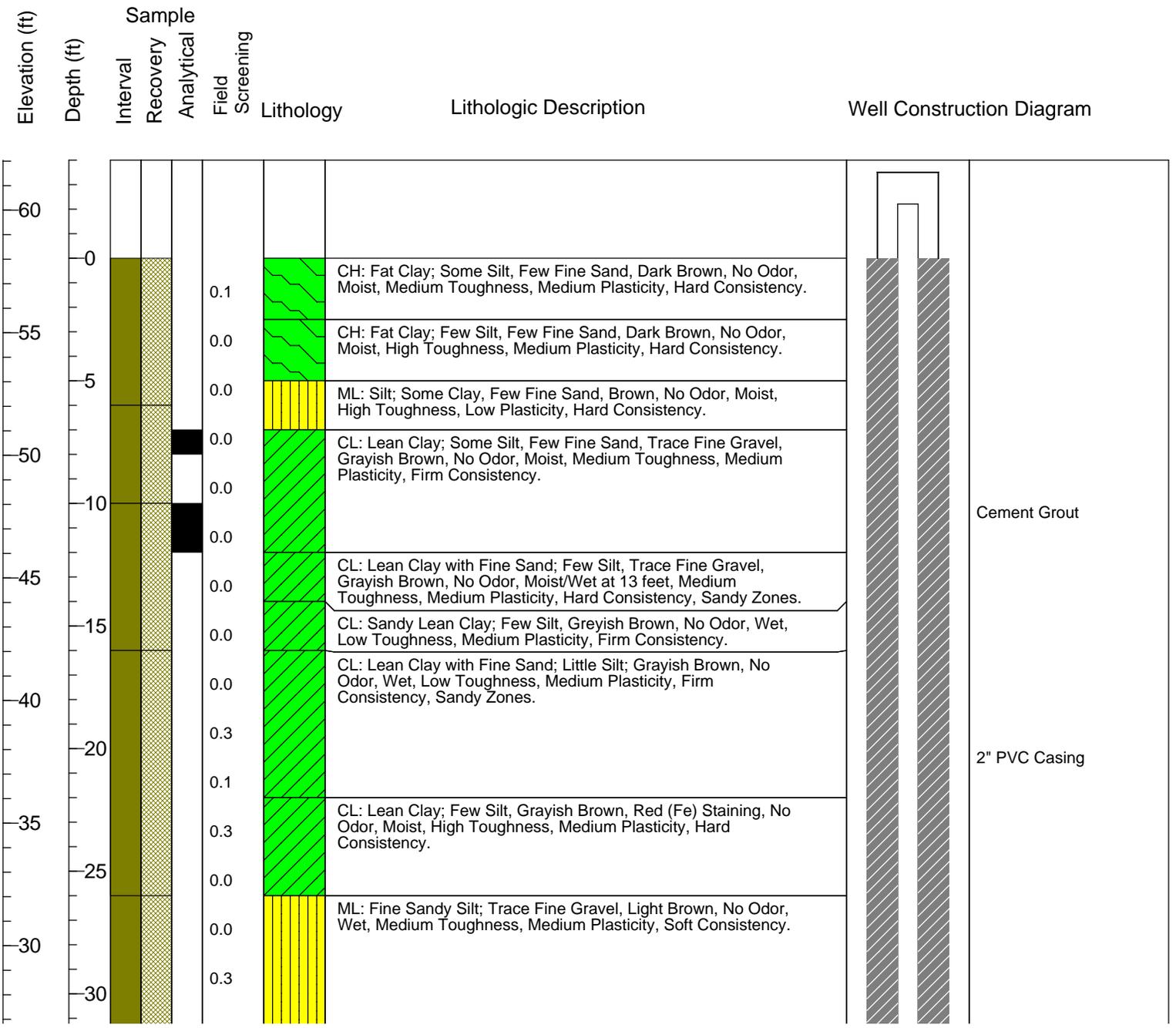


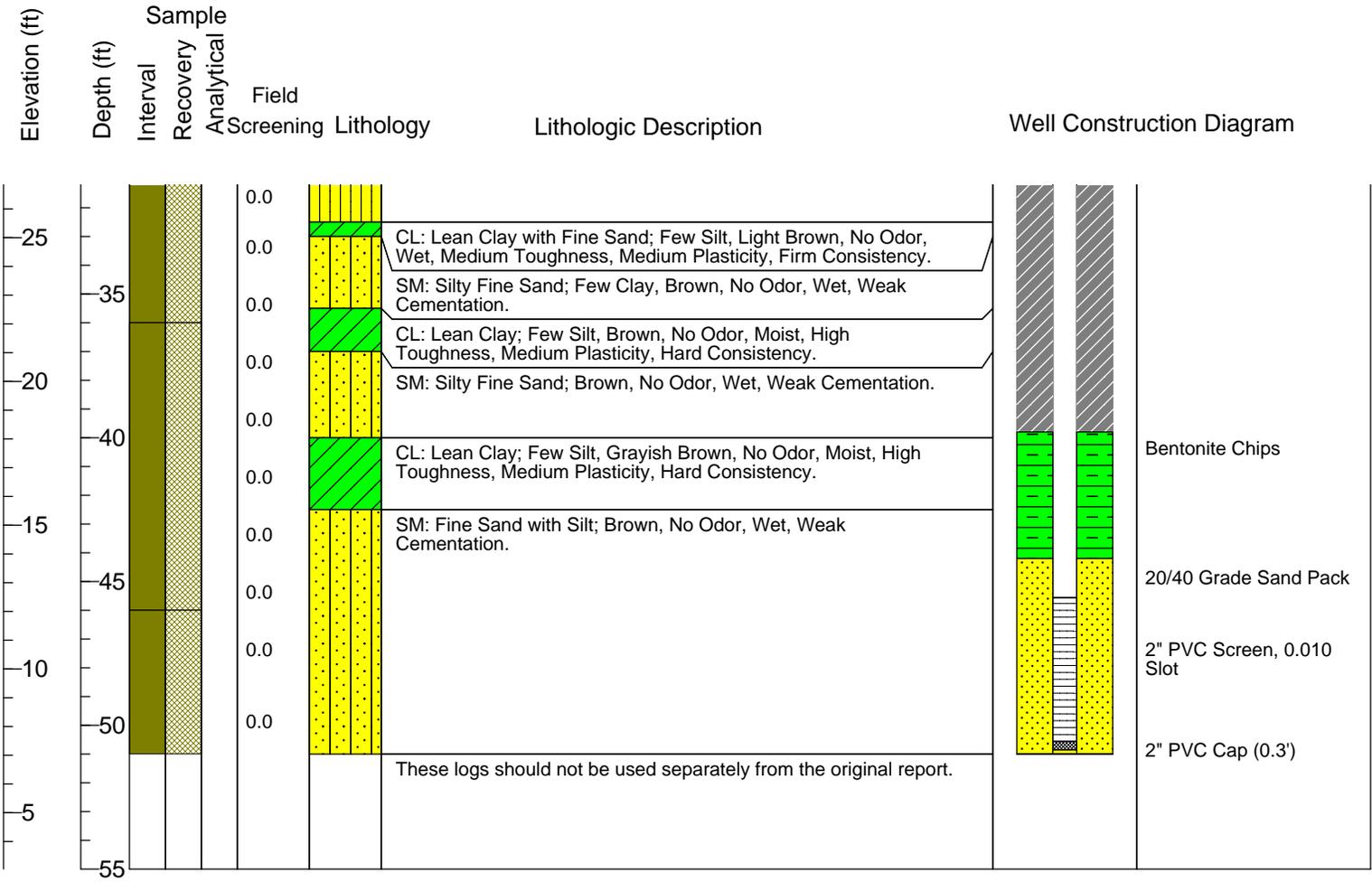


BORING LOG and WELL CONSTRUCTION

P-MW-13

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/12/07
Address: Driscoll, TX		Finish Date: 7/12/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 51	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1229076.138
Blow Count Method: NA		Y-Coordinate: 17137229.26
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 58.04
Well Depth (ft bgs): 50.86	Well Depth (ft toc): 53.07	Well Elevation (ft): 60.25
Casing Length (ft): 47.77	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 12.78
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1155



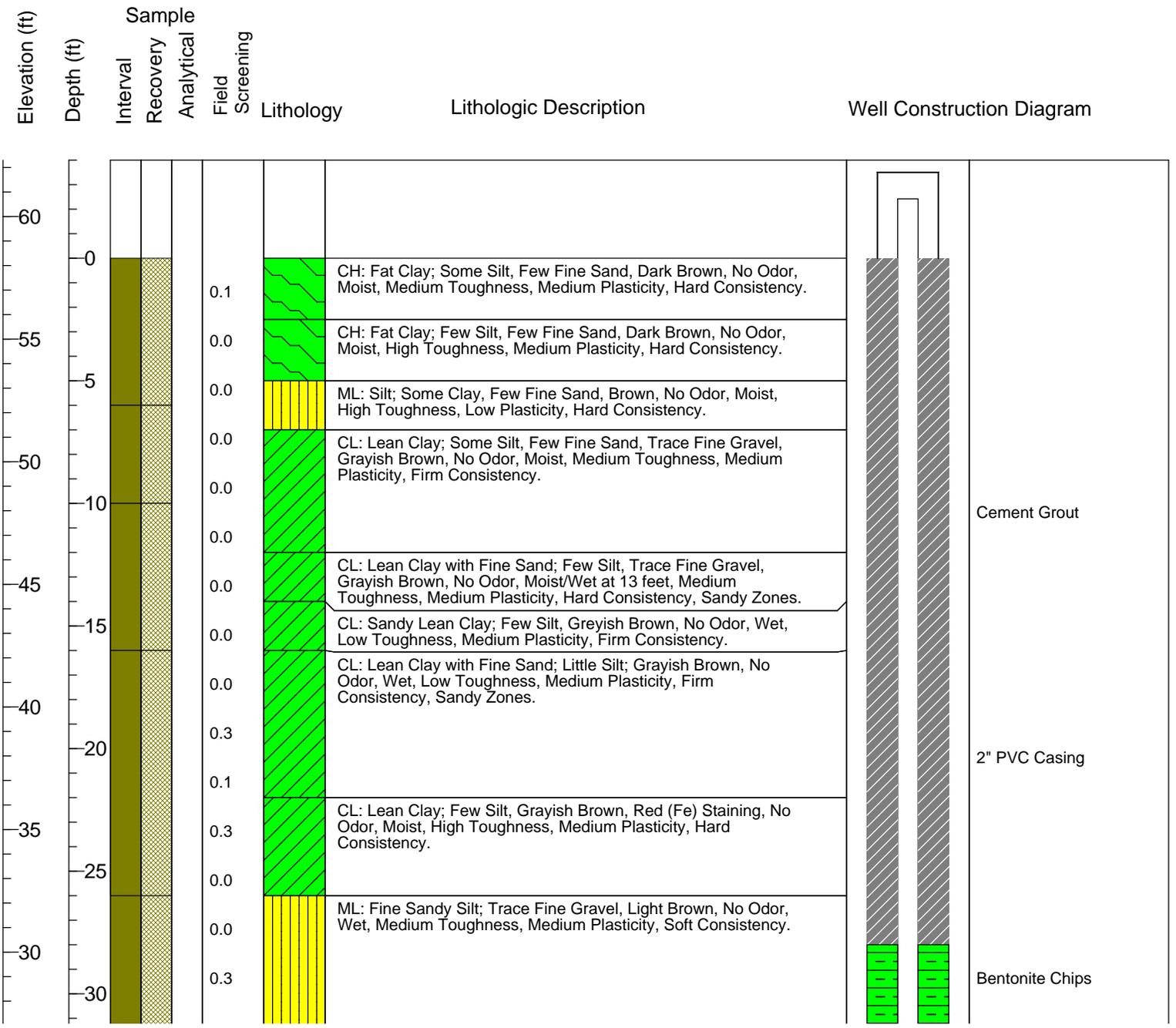




BORING LOG and WELL CONSTRUCTION

P-MW-14

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/12/07
Address: Driscoll, TX		Finish Date: 7/12/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 40	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1229079.09
Blow Count Method: NA		Y-Coordinate: 17137228.29
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 58.30
Well Depth (ft bgs): 39.26	Well Depth (ft toc): 41.68	Well Elevation (ft): 60.72
Casing Length (ft): 36.38	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 14.20
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1200





Elevation (ft)

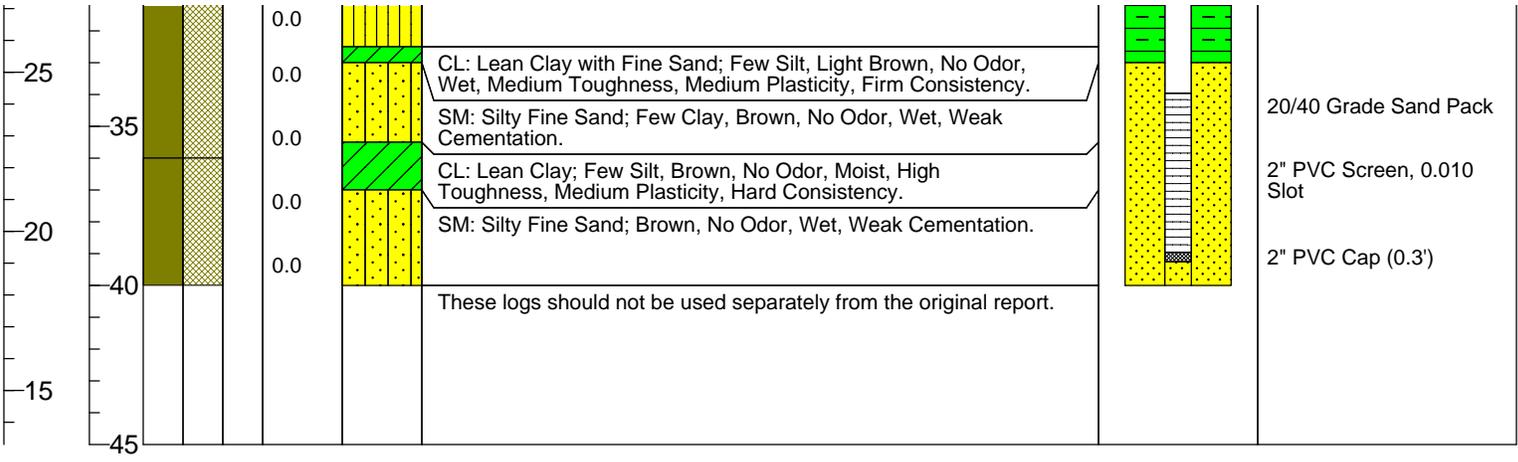
Depth (ft)
Interval
Recovery
Analytical

Field
Screening

Lithology

Lithologic Description

Well Construction Diagram

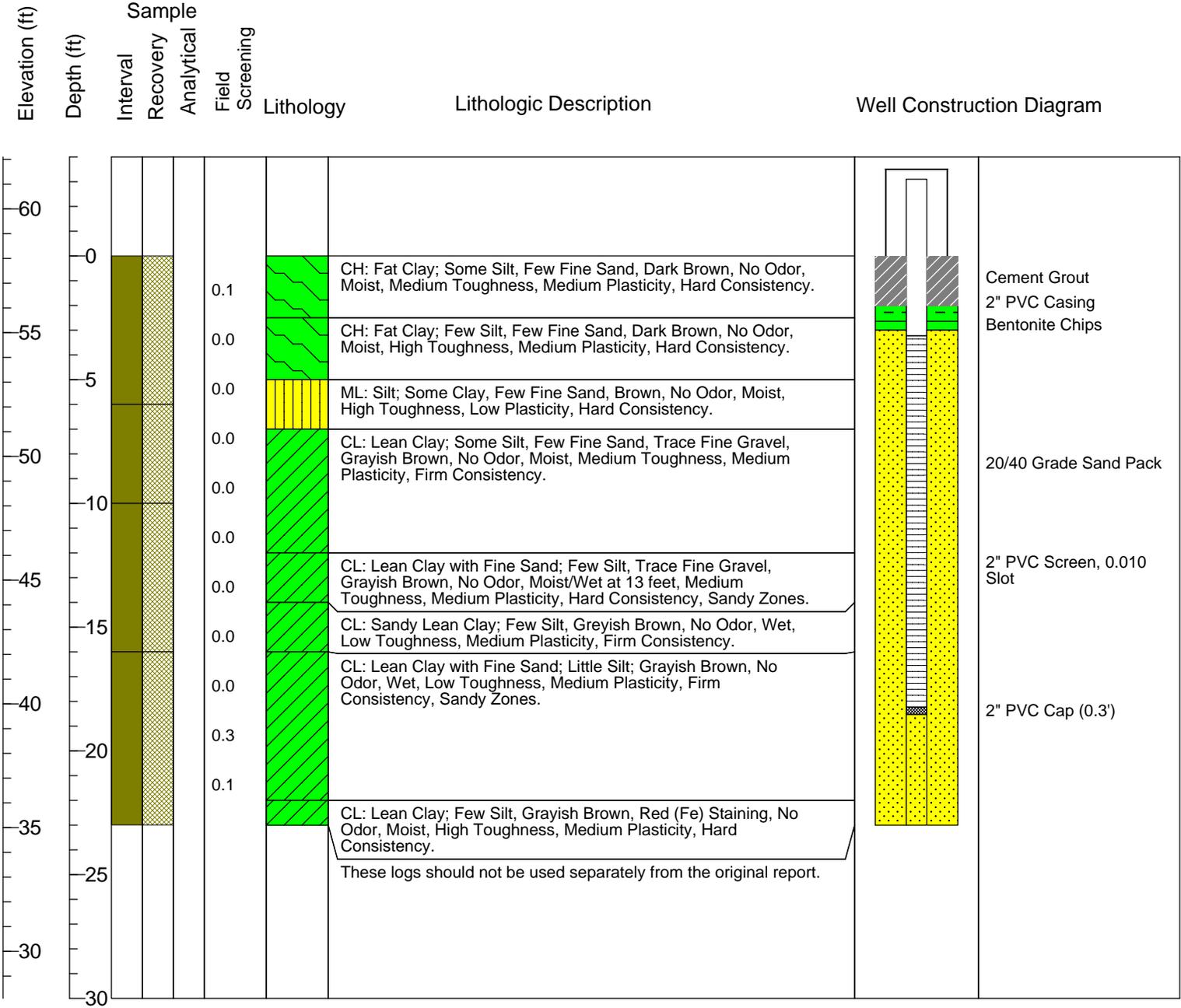




BORING LOG and WELL CONSTRUCTION

P-MW-15

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/12/07
Address: Driscoll, TX		Finish Date: 7/12/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 23	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1229081.959
Blow Count Method: NA		Y-Coordinate: 17137227.19
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 58.10
Well Depth (ft bgs): 18.53	Well Depth (ft toc): 21.63	Well Elevation (ft): 61.20
Casing Length (ft): 6.33	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 14.68
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1203

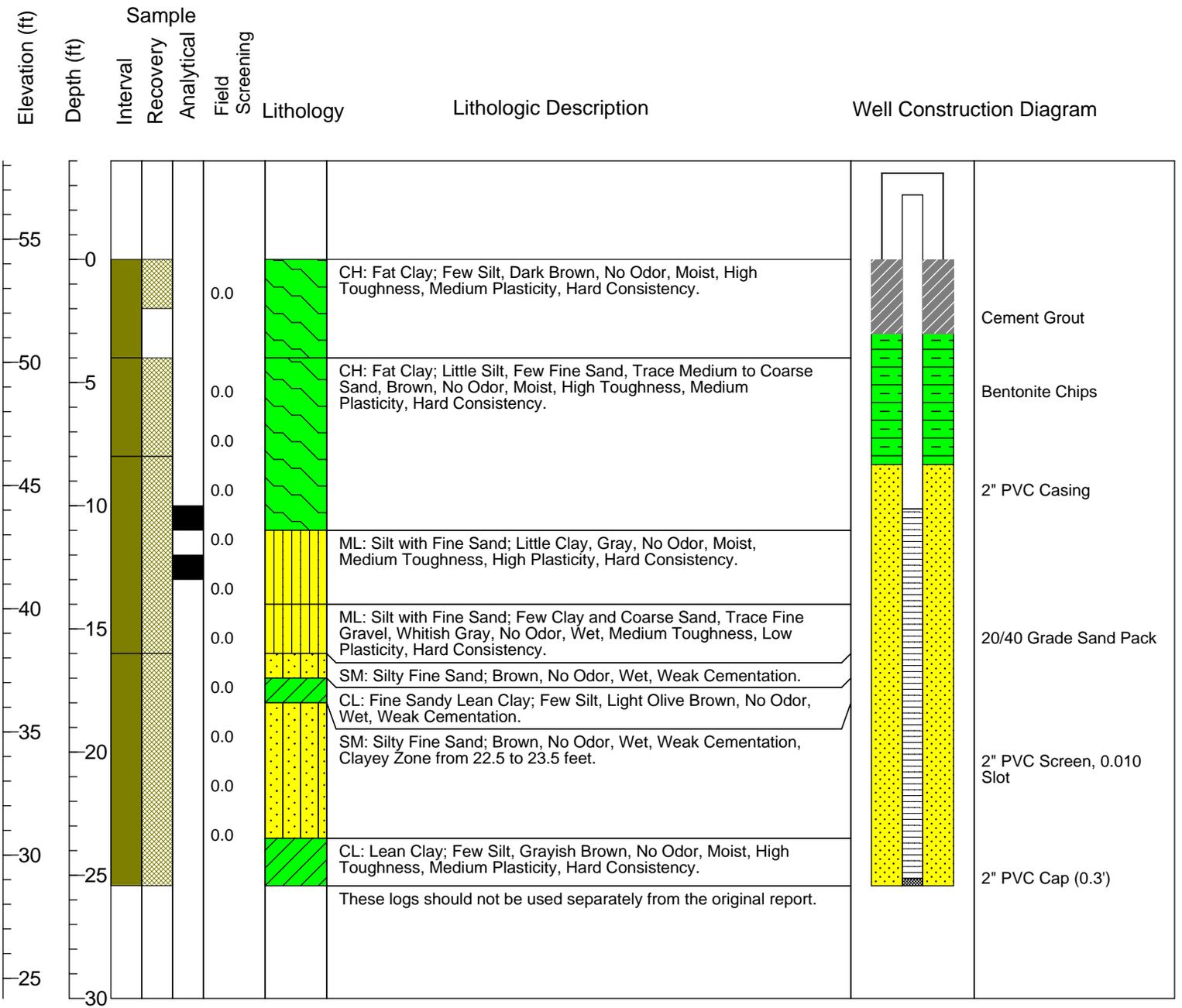




BORING LOG and WELL CONSTRUCTION

P-MW-16

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/12/07
Address: Driscoll, TX		Finish Date: 7/12/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 25.43	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1230272.238
Blow Count Method: NA		Y-Coordinate: 17136930.5
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 54.18
Well Depth (ft bgs): 25.43	Well Depth (ft toc): 28.05	Well Elevation (ft): 56.80
Casing Length (ft): 12.75	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 15.50
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1211

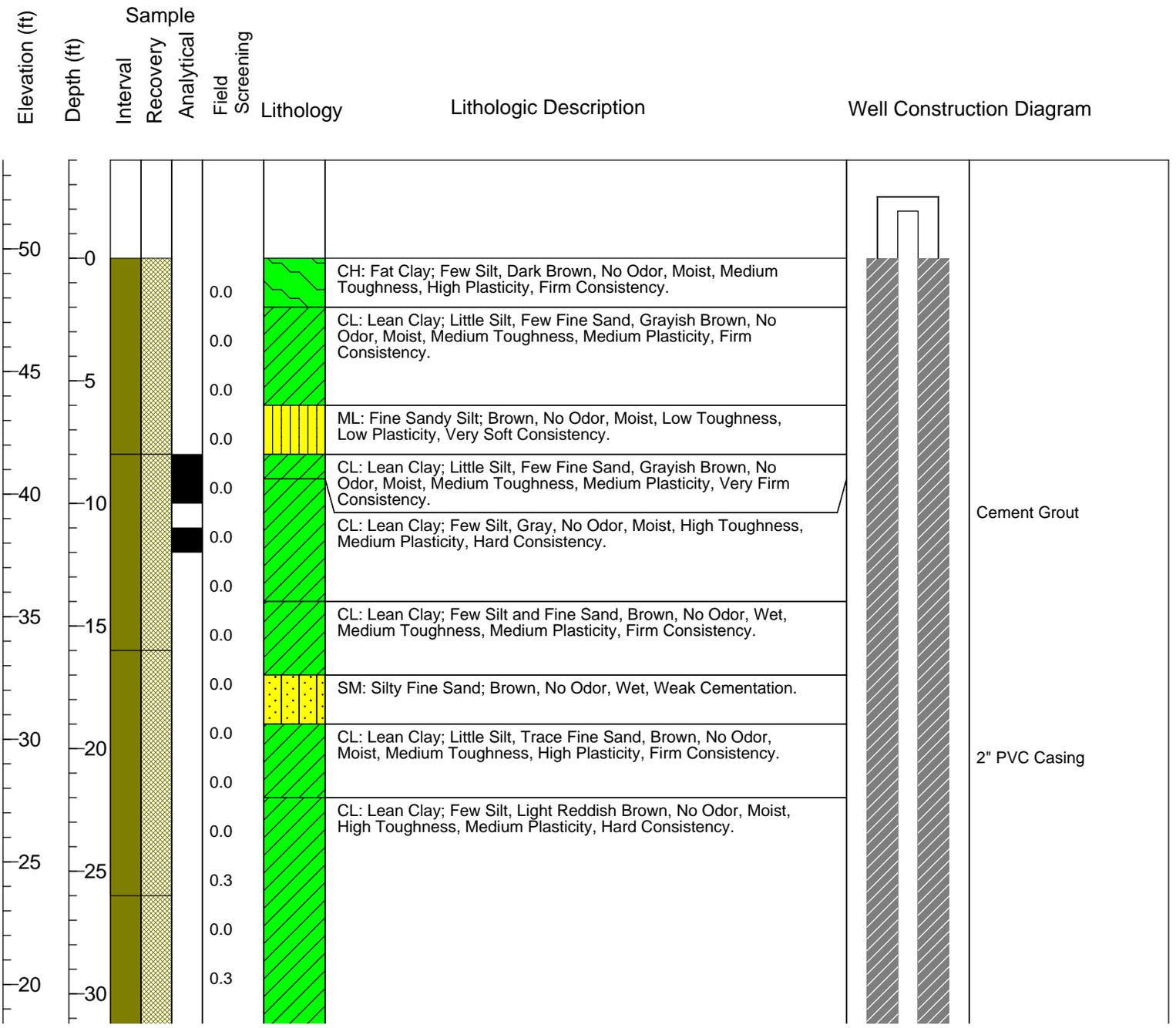


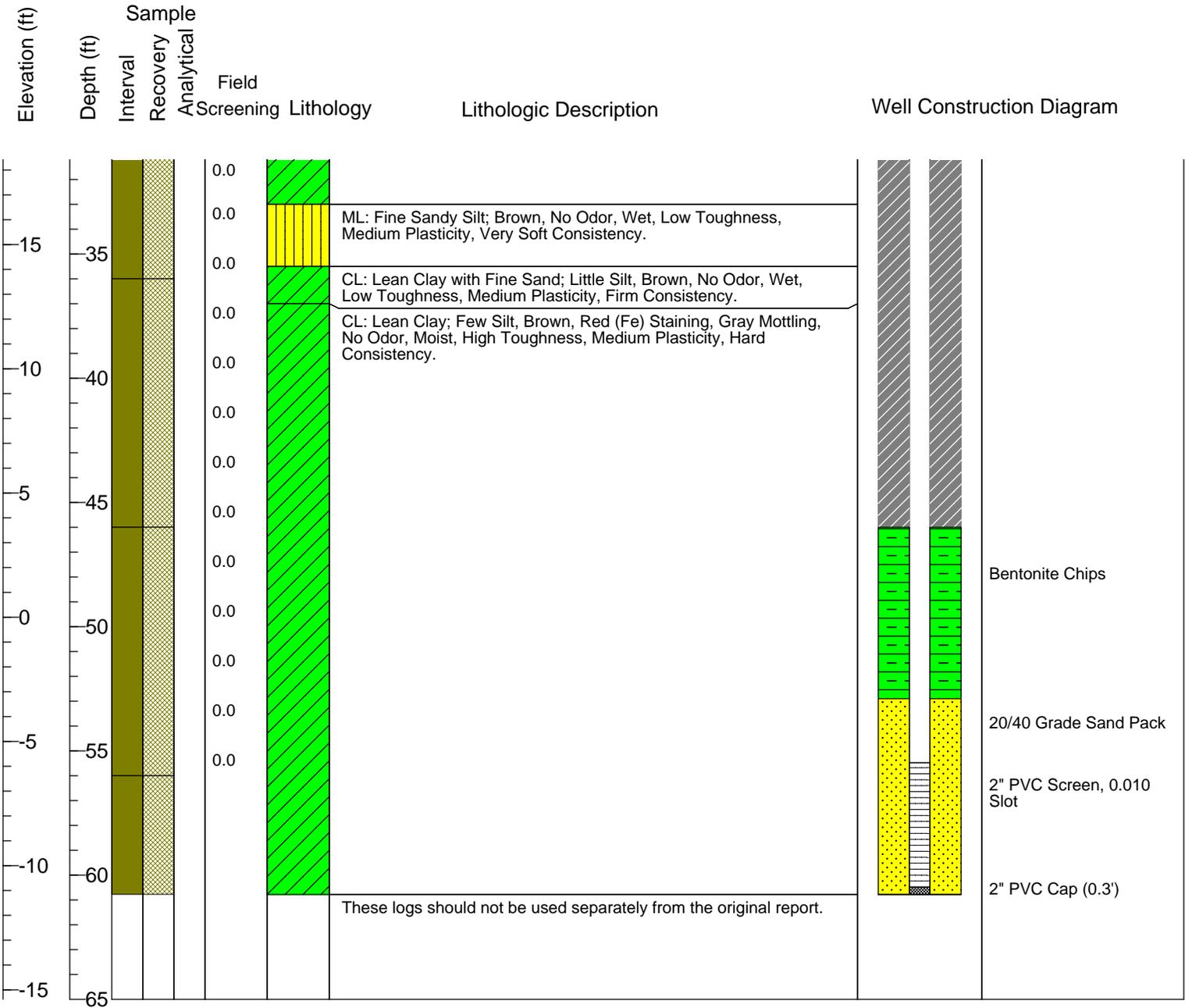


BORING LOG and WELL CONSTRUCTION

P-MW-17

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/13/07
Address: Driscoll, TX		Finish Date: 7/13/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 60.78	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1242474.245
Blow Count Method: NA		Y-Coordinate: 17128863.24
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 49.62
Well Depth (ft bgs): 60.78	Well Depth (ft toc): 62.70	Well Elevation (ft): 51.54
Casing Length (ft): 57.40	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 35.34
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 0907



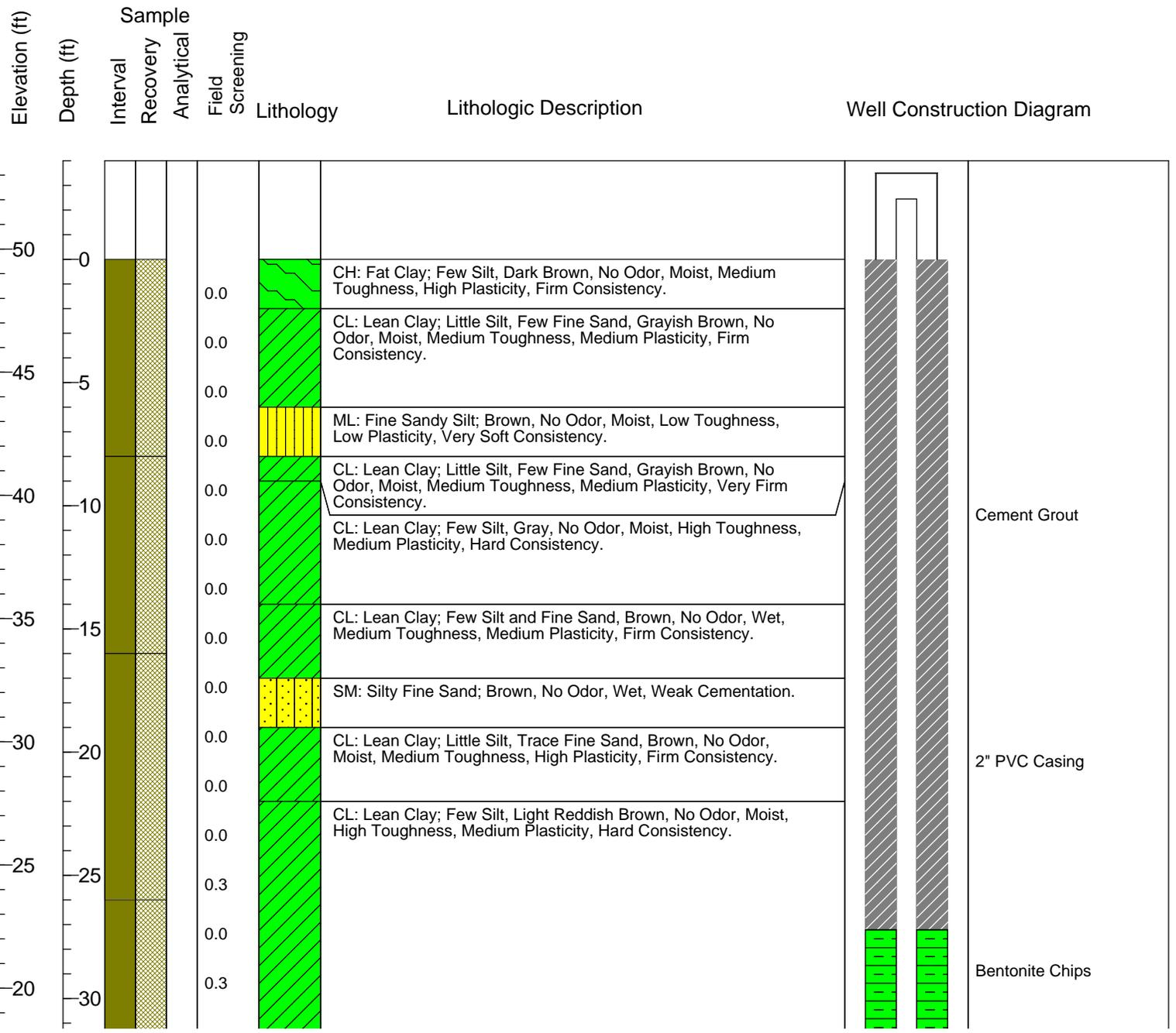




BORING LOG and WELL CONSTRUCTION

P-MW-18

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/13/07
Address: Driscoll, TX		Finish Date: 7/13/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 39	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1242468.807
Blow Count Method: NA		Y-Coordinate: 17128864.36
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 49.58
Well Depth (ft bgs): 38.57	Well Depth (ft toc): 41.02	Well Elevation (ft): 52.03
Casing Length (ft): 35.72	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concret Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 10.44
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 0910





Elevation (ft)

Depth (ft)

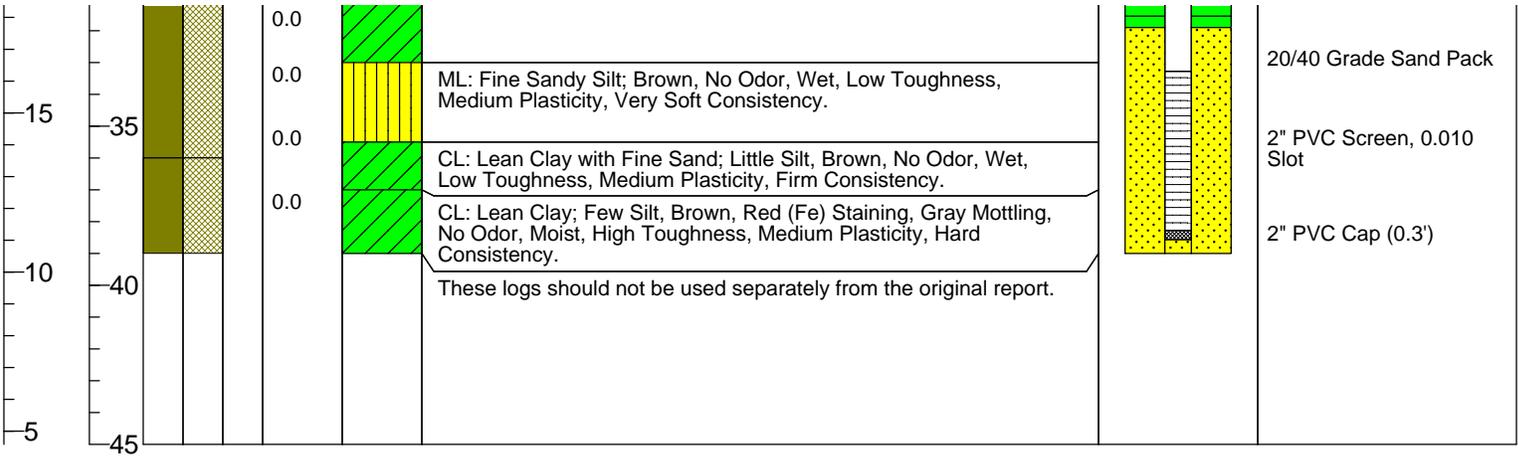
Sample
Interval
Recovery
Analytical

Field
Screening

Lithology

Lithologic Description

Well Construction Diagram

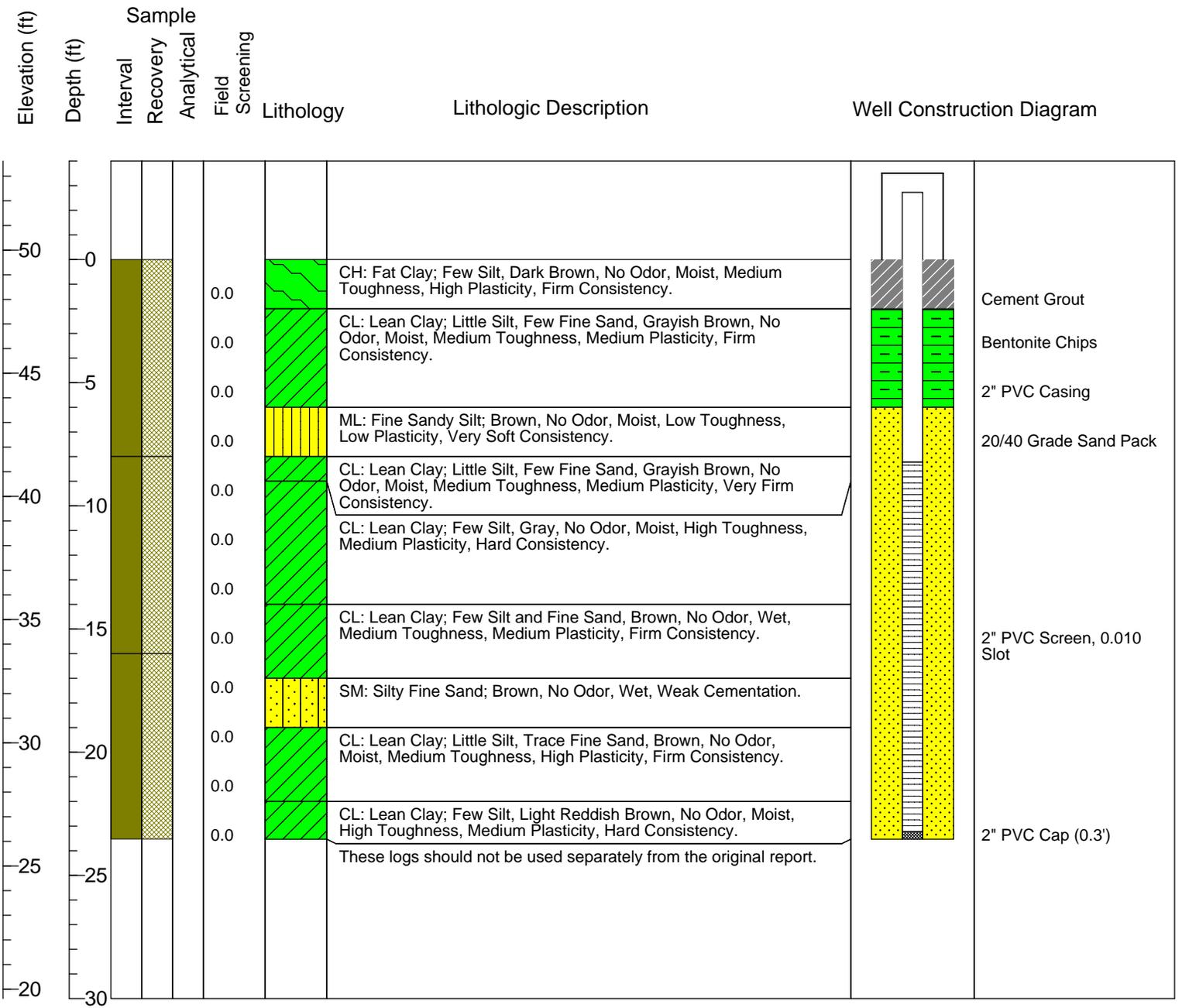




BORING LOG and WELL CONSTRUCTION

P-MW-19

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/13/07
Address: Driscoll, TX		Finish Date: 7/13/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 23.53	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1242463.736
Blow Count Method: NA		Y-Coordinate: 17128865.82
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 49.62
Well Depth (ft bgs): 23.53	Well Depth (ft toc): 26.25	Well Elevation (ft): 52.34
Casing Length (ft): 10.95	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 11.14
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 0913

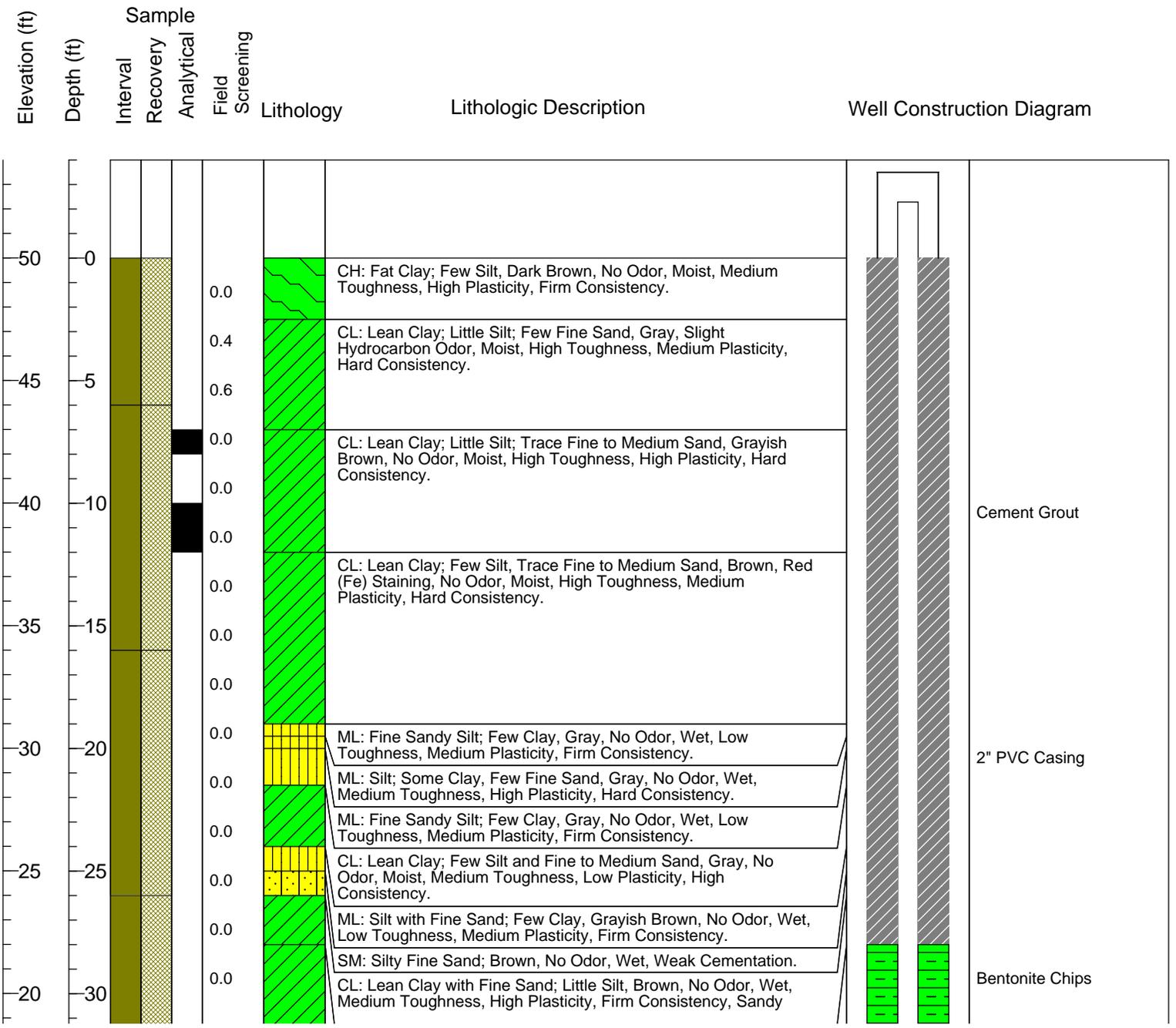


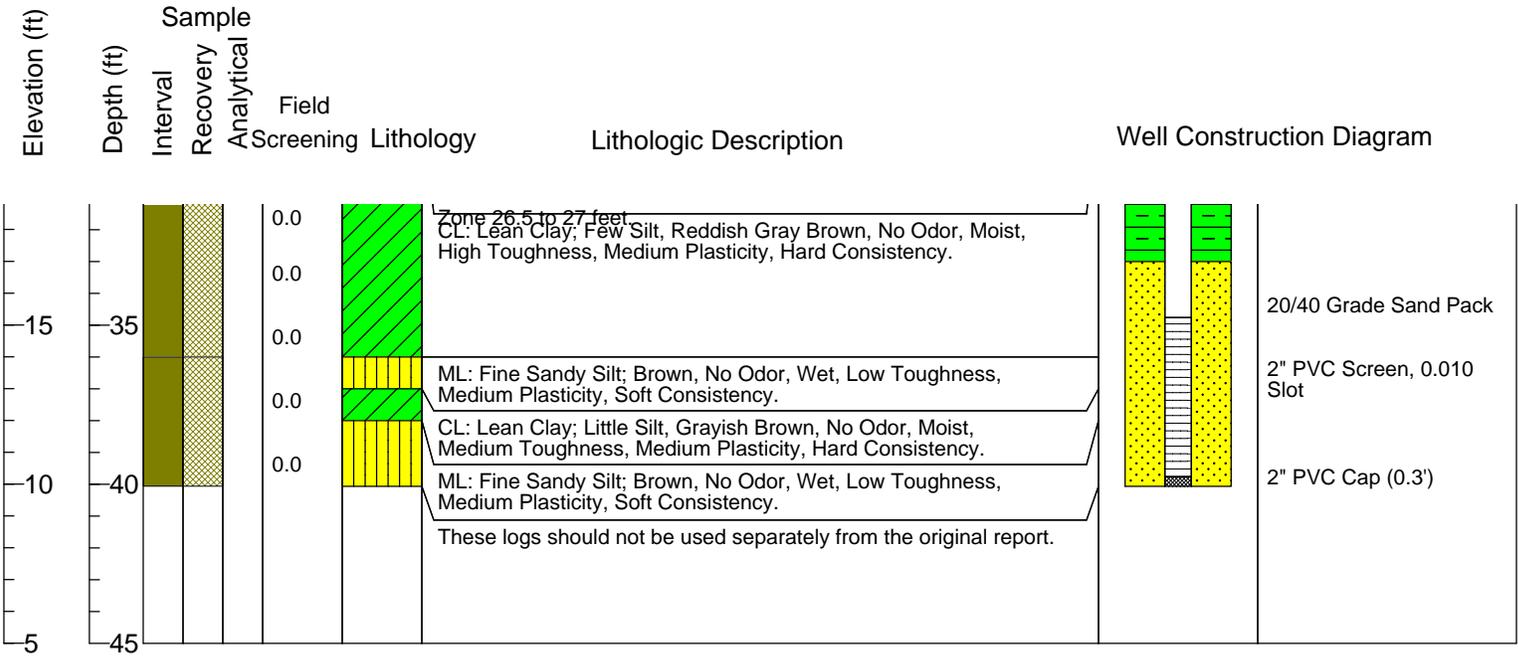


BORING LOG and WELL CONSTRUCTION

P-MW-20

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/14/07
Address: Driscoll, TX		Finish Date: 7/14/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 40.06	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1234599.917
Blow Count Method: NA		Y-Coordinate: 17127144.69
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 49.99
Well Depth (ft bgs): 40.06	Well Depth (ft toc): 42.35	Well Elevation (ft): 52.28
Casing Length (ft): 37.05	Screen Length (ft): 5	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 7.22
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1050



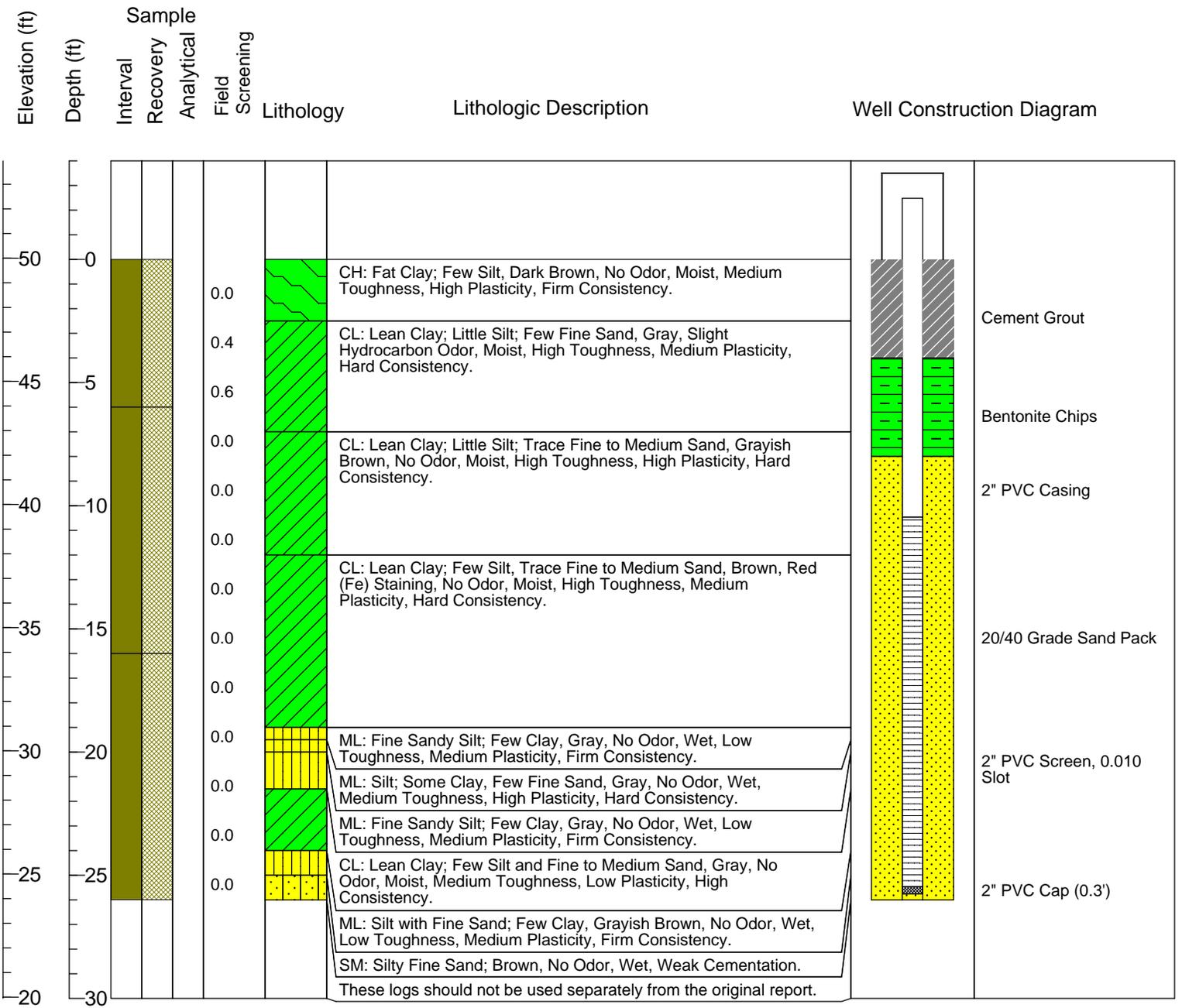




BORING LOG and WELL CONSTRUCTION

P-MW-21

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/14/07
Address: Driscoll, TX		Finish Date: 7/14/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 26	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1234603.804
Blow Count Method: NA		Y-Coordinate: 17127143.53
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 49.95
Well Depth (ft bgs): 25.76	Well Depth (ft toc): 28.24	Well Elevation (ft): 52.43
Casing Length (ft): 12.94	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 8.52
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 0935

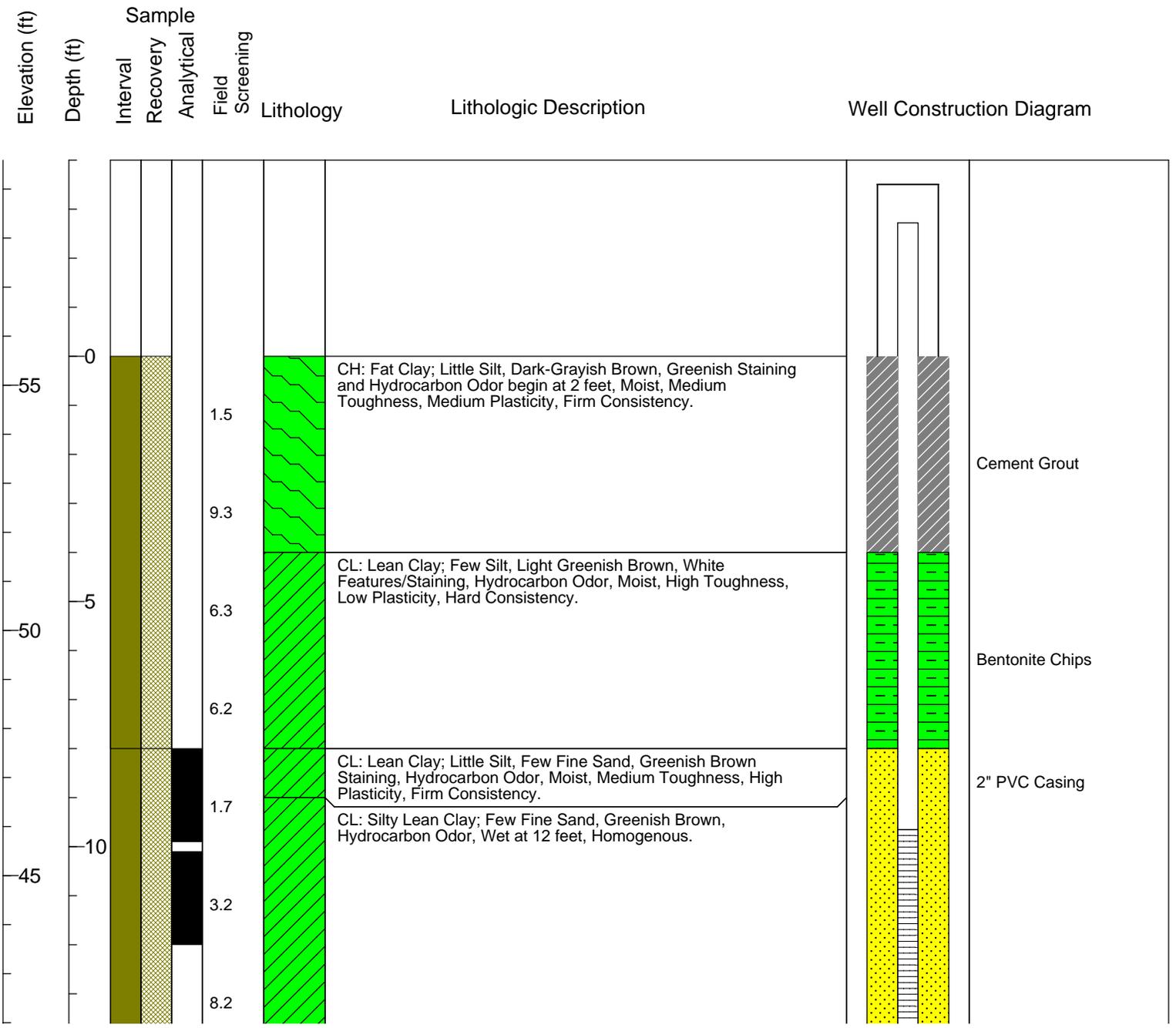


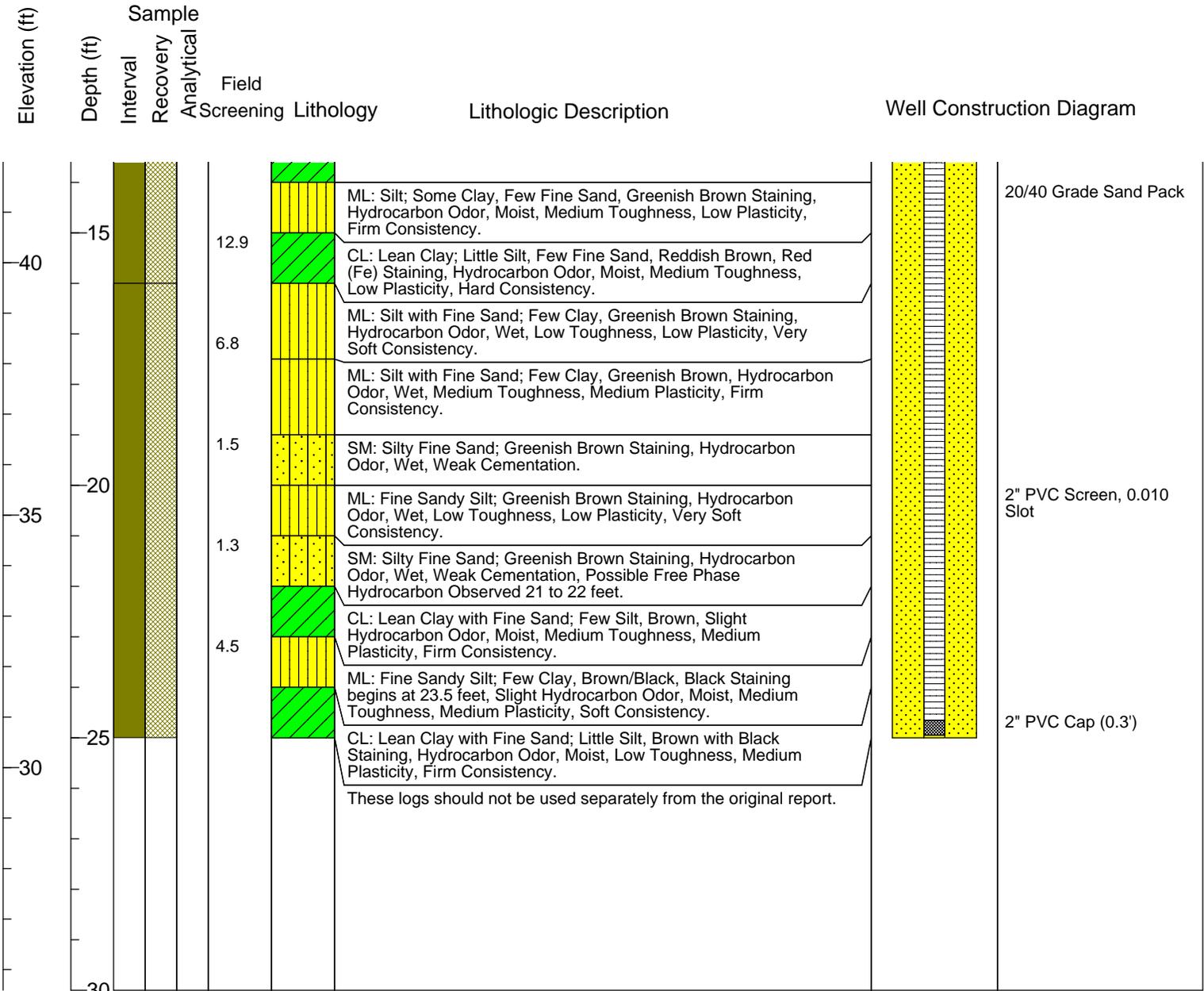


BORING LOG and WELL CONSTRUCTION

P-MW-22

Client: Railroad Commission of Texas		TRC Project #: 128161
Site: Petronila Creek		Start Date: 7/14/07
Address: Driscoll, TX		Finish Date: 7/14/07
Project: RRC Petronila Phase III		Permit #: NA
Drilling Company: Boart Longyear	Drilling Crew: N. Gamache & Crew	TRC Site Rep.: M. Webre
Drilling Method: Roto-Sonic		TRC Reviewer: A. Sahba
Boring Diameter (in): 6	Boring Depth (ft bgs): 25	X-Y Coord. Sys.: TX St Plane South NAD 83
Sampling Method: Roto-Sonic Core Barrel (4-in dia)		X-Coordinate: 1234522.095
Blow Count Method: NA		Y-Coordinate: 17137612.55
Field Screening Parameter: VOC		Elevation Datum: NAVD 88
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 55.59
Well Depth (ft bgs): 24.95	Well Depth (ft toc): 27.67	Well Elevation (ft): 58.31
Casing Length (ft): 12.37	Screen Length (ft): 15	Well Measuring Point: Top of Casing
Surface Completion: 2 ft x 2 ft Concrete Pad with Steel Stick-up and Bollards		Depth to Water (ft toc): 12.50
Well Development: Mini-Monsoon Pump		Date/Time: 10/24/07, 1135





APPENDIX C

LABORATORY ANALYTICAL REPORTS



July 12, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0707004

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek Groundwater Investigation

Dear Steve Miller:

DHL Analytical received 8 sample(s) on 6/30/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-06-TX



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Analytical QC Summary Report 26

MQL Summary Report 38

FedEx US Airbill
Express

FedEx Tracking Number 8625 4086 3302

Form ID No. 0200

Recipient's Copy

1 From
Date: 6/29/07
Sender's Name: Matt Webre
Company: ETRC
Address: 505 E. Huntland Dr. Ste 250
City: Austin State: TX ZIP: 78752

2 Your Internal Billing Reference

3 To
Recipient's Name: Dr. Luu
Company:
Recipient's Address: 3737 Royal Cove +
Address:
City: Round Rock State: TX ZIP: 78664



8625 4086 3302

4a Express Package Service Packages up to 150 lbs.

FedEx Priority Overnight
 FedEx Standard Overnight
 FedEx First Overnight
 FedEx 2Day
 FedEx Express Saver
 FedEx 3Day Freight

4b Express Freight Service Packages over 150 lbs.

FedEx 1Day Freight*
 FedEx 2Day Freight
 FedEx 3Day Freight

5 Packaging

FedEx Envelope*
 FedEx Pak*
 FedEx Box
 FedEx Tube
 Other

6 Special Handling

SATURDAY Delivery
 HOLD Weekday at FedEx Location
 HOLD Saturday at FedEx Location
Does this shipment contain dangerous goods?
 No
 Yes
 Dry Ice
 Cargo Aircraft Only

7 Payment Bill to:

Sender
 Recipient
 Third Party
 Credit Card
 Cash/Check
Total Packages: Total Weight: Total Declared Value: \$ 00

8 Residential Delivery Signature Options

No Signature Required
 Direct Signature
 Indirect Signature

fedex.com 1.800.GoFedEx 7600.4633.3399

CUSTODY SEAL
DATE 6/29/07
SIGNATURE Darja Clark



CUSTODY SEAL
DATE 6/29/07
SIGNATURE Darja Clark



Laboratory Data Package Signature Page

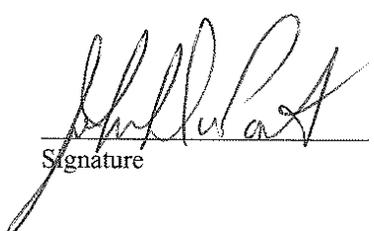
This data package consists of:

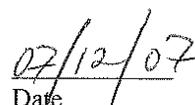
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature


Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: <u>RRC - Petronila Creek Groundwater</u>	Date: <u>7/12/07</u>
Reviewer Name: Laura Flowers	Laboratory Work Order: <u>0707004</u>
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?				✓	
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	7/12/07 ✓			✓	
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?				✓	
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				✓	R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?				✓	R7-04
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?				✓	R8-03
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RRC - Petronila Creek Groundwater Date: 7/12/07
 Reviewer Name: Laura Flowers Investigation Laboratory Work Order: 0707004

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section I appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			S9-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 6/30/2007

Work Order Number 0707004

Received by: DEW

Checklist completed by: [Signature]
Signature

7-2-07
Date

Reviewed by: [Initials]
Initials

07/02/07
Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707004

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E310.1 - Soluble Alkalinity of Soil
Method SW9056 - Anions Analysis
Method AGRON 10-2.3 - Electrical Conductance in Soil
Method SW9045C - pH of Solid (Corrosivity)
Method D2216 - Percent Moisture (Parameter Not NELAC Certified)

Exception Report R1-01

Samples were received and log-in performed on 6/30/07. A total of 8 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03 and R7-04

For Metals analysis, the recoveries of the matrix spike (0707004-08B MS) and matrix spike duplicate (0707004-08B MSD) were out of control limits for some analytes. In addition, the RPD of the matrix spike duplicate was above control limits for Barium. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken and no sample results were adversely affected.

Exception Report R8-03

For Alkalinity analysis, the RPD of the sample duplicates (0707004-08A DUP and 0707015-04A DUP) were above control limits. These are flagged accordingly in the QC summary report. No further corrective actions were taken.

Exception Report S9-01

For Metals analysis, the post digestion spike (0707004-08B PDS) was below control limits for Calcium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte therefore no further corrective actions were taken.

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707004

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0707004-01	P-SB-01-3-5		06/28/07 08:10 AM	06/30/07
0707004-02	P-SB-01-10-12		06/28/07 08:30 AM	06/30/07
0707004-03	P-SB-02-5-7		06/28/07 10:50 AM	06/30/07
0707004-04	P-SB-02-8-10		06/28/07 10:55 AM	06/30/07
0707004-05	P-SB-03-6-8		06/28/07 02:35 PM	06/30/07
0707004-06	P-SB-03-10-12		06/28/07 02:50 PM	06/30/07
0707004-07	P-SB-04-9-11		06/28/07 08:25 AM	06/30/07
0707004-08	P-SB-04-14-16		06/28/07 08:35 AM	06/30/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707004

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0707004-01A	P-SB-01-3-5	06/28/07 08:10 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-01-3-5	06/28/07 08:10 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-01-3-5	06/28/07 08:10 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-01-3-5	06/28/07 08:10 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-01-3-5	06/28/07 08:10 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
	P-SB-01-3-5	06/28/07 08:10 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/11/07	CONDW-07/11/07
0707004-01B	P-SB-01-3-5	06/28/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-01-3-5	06/28/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-01-3-5	06/28/07 08:10 AM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A
0707004-02A	P-SB-01-10-12	06/28/07 08:30 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-01-10-12	06/28/07 08:30 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-01-10-12	06/28/07 08:30 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-01-10-12	06/28/07 08:30 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-01-10-12	06/28/07 08:30 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
	P-SB-01-10-12	06/28/07 08:30 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/11/07	CONDW-07/11/07
0707004-02B	P-SB-01-10-12	06/28/07 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-01-10-12	06/28/07 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-01-10-12	06/28/07 08:30 AM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A
0707004-03A	P-SB-02-5-7	06/28/07 10:50 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-02-5-7	06/28/07 10:50 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-02-5-7	06/28/07 10:50 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-02-5-7	06/28/07 10:50 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-02-5-7	06/28/07 10:50 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707004-03B	P-SB-02-5-7	06/28/07 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-02-5-7	06/28/07 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-02-5-7	06/28/07 10:50 AM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A
0707004-04A	P-SB-02-8-10	06/28/07 10:55 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-02-8-10	06/28/07 10:55 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-02-8-10	06/28/07 10:55 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707004

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-SB-02-8-10	06/28/07 10:55 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-02-8-10	06/28/07 10:55 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
	P-SB-02-8-10	06/28/07 10:55 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/11/07	CONDW-07/11/07
0707004-04B	P-SB-02-8-10	06/28/07 10:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-02-8-10	06/28/07 10:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-02-8-10	06/28/07 10:55 AM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A
0707004-05A	P-SB-03-6-8	06/28/07 02:35 PM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-03-6-8	06/28/07 02:35 PM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-03-6-8	06/28/07 02:35 PM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-03-6-8	06/28/07 02:35 PM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-03-6-8	06/28/07 02:35 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-03-6-8	06/28/07 02:35 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707004-05B	P-SB-03-6-8	06/28/07 02:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-03-6-8	06/28/07 02:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-03-6-8	06/28/07 02:35 PM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A
0707004-06A	P-SB-03-10-12	06/28/07 02:50 PM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-03-10-12	06/28/07 02:50 PM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-03-10-12	06/28/07 02:50 PM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-03-10-12	06/28/07 02:50 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-03-10-12	06/28/07 02:50 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707004-06B	P-SB-03-10-12	06/28/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-03-10-12	06/28/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-03-10-12	06/28/07 02:50 PM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A
0707004-07A	P-SB-04-9-11	06/28/07 08:25 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-04-9-11	06/28/07 08:25 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-04-9-11	06/28/07 08:25 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-04-9-11	06/28/07 08:25 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-04-9-11	06/28/07 08:25 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707004-07B	P-SB-04-9-11	06/28/07 08:25 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707004

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-SB-04-9-11	06/28/07 08:25 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-04-9-11	06/28/07 08:25 AM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A
0707004-08A	P-SB-04-14-16	06/28/07 08:35 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-04-14-16	06/28/07 08:35 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-04-14-16	06/28/07 08:35 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-04-14-16	06/28/07 08:35 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-04-14-16	06/28/07 08:35 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707004-08B	P-SB-04-14-16	06/28/07 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-04-14-16	06/28/07 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-04-14-16	06/28/07 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 09:00 AM	26454
	P-SB-04-14-16	06/28/07 08:35 AM	Soil	D2216	Percent Moisture	07/02/07 05:07 PM	PMOIST_070703A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707004

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0707004-01A	P-SB-01-3-5	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 10:56 AM	IC2_070709A
	P-SB-01-3-5	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 12:45 PM	IC2_070709A
	P-SB-01-3-5	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-01-3-5	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/11/07	2	07/11/07 02:45 PM	WC_070711B
	P-SB-01-3-5	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-01-3-5	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:28 AM	TITRATOR_070706A
0707004-01B	P-SB-01-3-5	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A
	P-SB-01-3-5	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 07:52 PM	ICP-MS3_070706A
	P-SB-01-3-5	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:15 PM	ICP-MS3_070706A
0707004-02A	P-SB-01-10-12	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 11:11 AM	IC2_070709A
	P-SB-01-10-12	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 12:59 PM	IC2_070709A
	P-SB-01-10-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-01-10-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/11/07	2	07/11/07 02:45 PM	WC_070711B
	P-SB-01-10-12	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-01-10-12	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:29 AM	TITRATOR_070706A
0707004-02B	P-SB-01-10-12	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A
	P-SB-01-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 07:56 PM	ICP-MS3_070706A
	P-SB-01-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:19 PM	ICP-MS3_070706A
0707004-03A	P-SB-02-5-7	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 11:26 AM	IC2_070709A
	P-SB-02-5-7	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 01:14 PM	IC2_070709A
	P-SB-02-5-7	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-02-5-7	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-02-5-7	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:32 AM	TITRATOR_070706A
0707004-03B	P-SB-02-5-7	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A
	P-SB-02-5-7	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 08:37 PM	ICP-MS3_070706A
	P-SB-02-5-7	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:23 PM	ICP-MS3_070706A
0707004-04A	P-SB-02-8-10	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 11:40 AM	IC2_070709A
	P-SB-02-8-10	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 01:29 PM	IC2_070709A
	P-SB-02-8-10	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707004

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-SB-02-8-10	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/11/07	2	07/11/07 02:45 PM	WC_070711B
	P-SB-02-8-10	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-02-8-10	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:33 AM	TITRATOR_070706A
0707004-04B	P-SB-02-8-10	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A
	P-SB-02-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 08:41 PM	ICP-MS3_070706A
	P-SB-02-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:27 PM	ICP-MS3_070706A
0707004-05A	P-SB-03-6-8	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 11:55 AM	IC2_070709A
	P-SB-03-6-8	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 01:43 PM	IC2_070709A
	P-SB-03-6-8	Soil	SW9056	Anions by IC method - Soil	26473	10	07/09/07 01:58 PM	IC2_070709A
	P-SB-03-6-8	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-03-6-8	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-03-6-8	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:35 AM	TITRATOR_070706A
0707004-05B	P-SB-03-6-8	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A
	P-SB-03-6-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 08:45 PM	ICP-MS3_070706A
	P-SB-03-6-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:31 PM	ICP-MS3_070706A
0707004-06A	P-SB-03-10-12	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 12:10 PM	IC2_070709A
	P-SB-03-10-12	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 02:13 PM	IC2_070709A
	P-SB-03-10-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-03-10-12	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-03-10-12	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:37 AM	TITRATOR_070706A
0707004-06B	P-SB-03-10-12	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A
	P-SB-03-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 08:49 PM	ICP-MS3_070706A
	P-SB-03-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:35 PM	ICP-MS3_070706A
0707004-07A	P-SB-04-9-11	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 02:27 PM	IC2_070709A
	P-SB-04-9-11	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 03:28 PM	IC2_070709A
	P-SB-04-9-11	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-04-9-11	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-04-9-11	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:41 AM	TITRATOR_070706A
0707004-07B	P-SB-04-9-11	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707004

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-SB-04-9-11	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 08:52 PM	ICP-MS3_070706A
	P-SB-04-9-11	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:39 PM	ICP-MS3_070706A
0707004-08A	P-SB-04-14-16	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 02:42 PM	IC2_070709A
	P-SB-04-14-16	Soil	SW9056	Anions by IC method - Soil	26473	50	07/09/07 03:43 PM	IC2_070709A
	P-SB-04-14-16	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-04-14-16	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-04-14-16	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:49 AM	TITRATOR_070706A
0707004-08B	P-SB-04-14-16	Soil	D2216	Percent Moisture	PMOIST_070703A	1	07/03/07 08:45 AM	PMOIST_070703A
	P-SB-04-14-16	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	5	07/06/07 08:00 PM	ICP-MS3_070706A
	P-SB-04-14-16	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	100	07/06/07 09:43 PM	ICP-MS3_070706A
	P-SB-04-14-16	Soil	SW6020	Trace Metals: ICP-MS - Solid	26454	500	07/06/07 09:47 PM	ICP-MS3_070706A

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-01-3-5
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-01
Project No:	128161	Collection Date:	06/28/07 08:10 AM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	192	0.589	2.36		mg/Kg-dry	5	07/06/07 07:52 PM
Calcium	32700	295	295		mg/Kg-dry	100	07/06/07 09:15 PM
Iron	15500	295	295		mg/Kg-dry	100	07/06/07 09:15 PM
Magnesium	6060	295	295		mg/Kg-dry	100	07/06/07 09:15 PM
Potassium	5530	295	295		mg/Kg-dry	100	07/06/07 09:15 PM
Sodium	6980	295	295		mg/Kg-dry	100	07/06/07 09:15 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	121	60.6	60.6		mg/kg-dry	1	07/06/07 10:28 AM
Alkalinity, Carbonate (As CaCO3)	ND	60.6	60.6		mg/kg-dry	1	07/06/07 10:28 AM
Alkalinity, Hydroxide (As CaCO3)	ND	60.6	60.6		mg/kg-dry	1	07/06/07 10:28 AM
Alkalinity, Total (As CaCO3)	121	60.6	60.6		mg/kg-dry	1	07/06/07 10:28 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	16.8	6.01	6.01		mg/Kg-dry	1	07/09/07 10:56 AM
Chloride	6250	300	300		mg/Kg-dry	50	07/09/07 12:45 PM
Nitrate-N	ND	6.01	6.01		mg/Kg-dry	1	07/09/07 10:56 AM
Sulfate	9240	601	601		mg/Kg-dry	50	07/09/07 12:45 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.74	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	17.6	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	16900	20.0	20.0		µmhos/cm	2	07/11/07 02:45 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-01-10-12
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-02
Project No:	128161	Collection Date:	06/28/07 08:30 AM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	118	0.601	2.41		mg/Kg-dry	5	07/06/07 07:56 PM
Calcium	21400	301	301		mg/Kg-dry	100	07/06/07 09:19 PM
Iron	15500	301	301		mg/Kg-dry	100	07/06/07 09:19 PM
Magnesium	5560	301	301		mg/Kg-dry	100	07/06/07 09:19 PM
Potassium	5440	301	301		mg/Kg-dry	100	07/06/07 09:19 PM
Sodium	7640	301	301		mg/Kg-dry	100	07/06/07 09:19 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	118	60.8	60.8		mg/kg-dry	1	07/06/07 10:29 AM
Alkalinity, Carbonate (As CaCO3)	ND	60.8	60.8		mg/kg-dry	1	07/06/07 10:29 AM
Alkalinity, Hydroxide (As CaCO3)	ND	60.8	60.8		mg/kg-dry	1	07/06/07 10:29 AM
Alkalinity, Total (As CaCO3)	118	60.8	60.8		mg/kg-dry	1	07/06/07 10:29 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	19.3	6.03	6.03		mg/Kg-dry	1	07/09/07 11:11 AM
Chloride	7030	301	301		mg/Kg-dry	50	07/09/07 12:59 PM
Nitrate-N	ND	6.03	6.03		mg/Kg-dry	1	07/09/07 11:11 AM
Sulfate	3520	603	603		mg/Kg-dry	50	07/09/07 12:59 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.70	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	18.5	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	17100	20.0	20.0		µmhos/cm	2	07/11/07 02:45 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-02-5-7
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-03
Project No:	128161	Collection Date:	06/28/07 10:50 AM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	468	0.617	2.47		mg/Kg-dry	5	07/06/07 08:37 PM
Calcium	28400	308	308		mg/Kg-dry	100	07/06/07 09:23 PM
Iron	17100	308	308		mg/Kg-dry	100	07/06/07 09:23 PM
Magnesium	7050	308	308		mg/Kg-dry	100	07/06/07 09:23 PM
Potassium	6100	308	308		mg/Kg-dry	100	07/06/07 09:23 PM
Sodium	7620	308	308		mg/Kg-dry	100	07/06/07 09:23 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	138	62.9	62.9		mg/kg-dry	1	07/06/07 10:32 AM
Alkalinity, Carbonate (As CaCO3)	ND	62.9	62.9		mg/kg-dry	1	07/06/07 10:32 AM
Alkalinity, Hydroxide (As CaCO3)	ND	62.9	62.9		mg/kg-dry	1	07/06/07 10:32 AM
Alkalinity, Total (As CaCO3)	138	62.9	62.9		mg/kg-dry	1	07/06/07 10:32 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	17.6	6.35	6.35		mg/Kg-dry	1	07/09/07 11:26 AM
Chloride	6430	318	318		mg/Kg-dry	50	07/09/07 01:14 PM
Nitrate-N	ND	6.35	6.35		mg/Kg-dry	1	07/09/07 11:26 AM
Sulfate	358	12.7	12.7		mg/Kg-dry	1	07/09/07 11:26 AM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.73	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	21.3	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	8020	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-02-8-10
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-04
Project No:	128161	Collection Date:	06/28/07 10:55 AM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	164	0.556	2.22		mg/Kg-dry	5	07/06/07 08:41 PM
Calcium	45600	278	278		mg/Kg-dry	100	07/06/07 09:27 PM
Iron	14700	278	278		mg/Kg-dry	100	07/06/07 09:27 PM
Magnesium	5600	278	278		mg/Kg-dry	100	07/06/07 09:27 PM
Potassium	5190	278	278		mg/Kg-dry	100	07/06/07 09:27 PM
Sodium	6990	278	278		mg/Kg-dry	100	07/06/07 09:27 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	93.3	61.8	61.8		mg/kg-dry	1	07/06/07 10:33 AM
Alkalinity, Carbonate (As CaCO3)	ND	61.8	61.8		mg/kg-dry	1	07/06/07 10:33 AM
Alkalinity, Hydroxide (As CaCO3)	ND	61.8	61.8		mg/kg-dry	1	07/06/07 10:33 AM
Alkalinity, Total (As CaCO3)	93.3	61.8	61.8		mg/kg-dry	1	07/06/07 10:33 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	17.0	6.14	6.14		mg/Kg-dry	1	07/09/07 11:40 AM
Chloride	6240	307	307		mg/Kg-dry	50	07/09/07 01:29 PM
Nitrate-N	ND	6.14	6.14		mg/Kg-dry	1	07/09/07 11:40 AM
Sulfate	8890	614	614		mg/Kg-dry	50	07/09/07 01:29 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.72	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	19.7	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	14800	20.0	20.0		µmhos/cm	2	07/11/07 02:45 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-03-6-8
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-05
Project No:	128161	Collection Date:	06/28/07 02:35 PM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	203	0.636	2.54		mg/Kg-dry	5	07/06/07 08:45 PM
Calcium	51400	318	318		mg/Kg-dry	100	07/06/07 09:31 PM
Iron	20500	318	318		mg/Kg-dry	100	07/06/07 09:31 PM
Magnesium	8680	318	318		mg/Kg-dry	100	07/06/07 09:31 PM
Potassium	7410	318	318		mg/Kg-dry	100	07/06/07 09:31 PM
Sodium	3860	318	318		mg/Kg-dry	100	07/06/07 09:31 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	125	64.5	64.5		mg/kg-dry	1	07/06/07 10:35 AM
Alkalinity, Carbonate (As CaCO3)	ND	64.5	64.5		mg/kg-dry	1	07/06/07 10:35 AM
Alkalinity, Hydroxide (As CaCO3)	ND	64.5	64.5		mg/kg-dry	1	07/06/07 10:35 AM
Alkalinity, Total (As CaCO3)	125	64.5	64.5		mg/kg-dry	1	07/06/07 10:35 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	11.3	6.31	6.31		mg/Kg-dry	1	07/09/07 11:55 AM
Chloride	4870	315	315		mg/Kg-dry	50	07/09/07 01:43 PM
Nitrate-N	ND	6.31	6.31		mg/Kg-dry	1	07/09/07 11:55 AM
Sulfate	1120	126	126		mg/Kg-dry	10	07/09/07 01:58 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.52	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	22.9	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	6430	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-03-10-12
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-06
Project No:	128161	Collection Date:	06/28/07 02:50 PM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid							
		SW6020					Analyst: KDT
Barium	96.2	0.619	2.48		mg/Kg-dry	5	07/06/07 08:49 PM
Calcium	21200	310	310		mg/Kg-dry	100	07/06/07 09:35 PM
Iron	23400	310	310		mg/Kg-dry	100	07/06/07 09:35 PM
Magnesium	9260	310	310		mg/Kg-dry	100	07/06/07 09:35 PM
Potassium	8410	310	310		mg/Kg-dry	100	07/06/07 09:35 PM
Sodium	4230	310	310		mg/Kg-dry	100	07/06/07 09:35 PM
Soluble Alkalinity of Soil							
		E310.1					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	100	64.3	64.3		mg/kg-dry	1	07/06/07 10:37 AM
Alkalinity, Carbonate (As CaCO3)	ND	64.3	64.3		mg/kg-dry	1	07/06/07 10:37 AM
Alkalinity, Hydroxide (As CaCO3)	ND	64.3	64.3		mg/kg-dry	1	07/06/07 10:37 AM
Alkalinity, Total (As CaCO3)	100	64.3	64.3		mg/kg-dry	1	07/06/07 10:37 AM
Anions by IC method - Soil							
		SW9056					Analyst: JBC
Bromide	10.9	6.45	6.45		mg/Kg-dry	1	07/09/07 12:10 PM
Chloride	4810	323	323		mg/Kg-dry	50	07/09/07 02:13 PM
Nitrate-N	ND	6.45	6.45		mg/Kg-dry	1	07/09/07 12:10 PM
Sulfate	390	12.9	12.9		mg/Kg-dry	1	07/09/07 12:10 PM
pH of Solid (Corrosivity)							
		SW9045C					Analyst: JBC
pH	7.43	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture							
		D2216					Analyst: TPO
Percent Moisture	23.1	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil							
		Agron 10-2.3					Analyst: JBC
Specific Conductance	6880	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-04-9-11
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-07
Project No:	128161	Collection Date:	06/28/07 08:25 AM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	297	0.531	2.12		mg/Kg-dry	5	07/06/07 08:52 PM
Calcium	3390	265	265		mg/Kg-dry	100	07/06/07 09:39 PM
Iron	10200	265	265		mg/Kg-dry	100	07/06/07 09:39 PM
Magnesium	3370	265	265		mg/Kg-dry	100	07/06/07 09:39 PM
Potassium	3820	265	265		mg/Kg-dry	100	07/06/07 09:39 PM
Sodium	5450	265	265		mg/Kg-dry	100	07/06/07 09:39 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	104	59.9	59.9		mg/kg-dry	1	07/06/07 10:41 AM
Alkalinity, Carbonate (As CaCO3)	143	59.9	59.9		mg/kg-dry	1	07/06/07 10:41 AM
Alkalinity, Hydroxide (As CaCO3)	ND	59.9	59.9		mg/kg-dry	1	07/06/07 10:41 AM
Alkalinity, Total (As CaCO3)	247	59.9	59.9		mg/kg-dry	1	07/06/07 10:41 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	17.9	6.04	6.04		mg/Kg-dry	1	07/09/07 02:27 PM
Chloride	5800	302	302		mg/Kg-dry	50	07/09/07 03:28 PM
Nitrate-N	ND	6.04	6.04		mg/Kg-dry	1	07/09/07 02:27 PM
Sulfate	58.0	12.1	12.1		mg/Kg-dry	1	07/09/07 02:27 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.15	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	17.4	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	7660	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/12/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-04-14-16
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707004-08
Project No:	128161	Collection Date:	06/28/07 08:35 AM
Lab Order:	0707004	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	88.8	0.566	2.26		mg/Kg-dry	5	07/06/07 08:00 PM
Calcium	116000	1410	1410		mg/Kg-dry	500	07/06/07 09:47 PM
Iron	11000	283	283		mg/Kg-dry	100	07/06/07 09:43 PM
Magnesium	3960	283	283		mg/Kg-dry	100	07/06/07 09:43 PM
Potassium	3360	283	283		mg/Kg-dry	100	07/06/07 09:43 PM
Sodium	2560	283	283		mg/Kg-dry	100	07/06/07 09:43 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	111	57.3	57.3		mg/kg-dry	1	07/06/07 10:49 AM
Alkalinity, Carbonate (As CaCO3)	ND	57.3	57.3		mg/kg-dry	1	07/06/07 10:49 AM
Alkalinity, Hydroxide (As CaCO3)	ND	57.3	57.3		mg/kg-dry	1	07/06/07 10:49 AM
Alkalinity, Total (As CaCO3)	111	57.3	57.3		mg/kg-dry	1	07/06/07 10:49 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	8.97	5.68	5.68		mg/Kg-dry	1	07/09/07 02:42 PM
Chloride	3090	284	284		mg/Kg-dry	50	07/09/07 03:43 PM
Nitrate-N	ND	5.68	5.68		mg/Kg-dry	1	07/09/07 02:42 PM
Sulfate	303	11.4	11.4		mg/Kg-dry	1	07/09/07 02:42 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.89	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	13.4	0	0	N	WT%	1	07/03/07 08:45 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	5190	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070706A

Sample ID:	MB-26454	Batch ID:	26454	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 07:41 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	2.00								
Calcium	ND	12.5								
Iron	ND	12.5								
Magnesium	ND	12.5								
Potassium	ND	12.5								
Sodium	ND	12.5								

Sample ID:	LCS-26454	Batch ID:	26454	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 07:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	49.8	2.00	50.00	0	99.7	80	120			
Calcium	268	12.5	250.0	0	107	80	120			
Iron	255	12.5	250.0	0	102	80	120			
Magnesium	257	12.5	250.0	0	103	80	120			
Potassium	264	12.5	250.0	0	106	80	120			
Sodium	256	12.5	250.0	0	103	80	120			

Sample ID:	LCS-26454	Batch ID:	26454	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 07:48 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	50.6	2.00	50.00	0	101	80	120	1.54	25	
Calcium	283	12.5	250.0	0	113	80	120	5.54	25	
Iron	261	12.5	250.0	0	104	80	120	2.23	25	
Magnesium	267	12.5	250.0	0	107	80	120	3.82	25	
Potassium	275	12.5	250.0	0	110	80	120	3.99	25	
Sodium	268	12.5	250.0	0	107	80	120	4.48	25	

Sample ID:	0707004-08B SD	Batch ID:	26454	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 08:03 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	87.2	11.3	0	88.84				1.82	10	
Calcium	95300	70.7	0	92150				3.37	10	
Iron	11500	70.7	0	11390				1.03	10	
Magnesium	4120	70.7	0	3738				9.83	10	
Potassium	3460	70.7	0	3208				7.59	10	
Sodium	2760	70.7	0	2558				7.49	10	

Sample ID:	0707004-08B MS	Batch ID:	26454	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 08:07 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	209	2.26	56.59	88.84	213	80	120			S
Calcium	81100	14.1	282.9	92150	-3920	80	120			S
Iron	11000	14.1	282.9	11390	-120	80	120			S
Magnesium	3860	14.1	282.9	3738	44.0	80	120			S

Qualifiers: B Analyte detected in the associated Method Blank R RPD outside accepted control limits
 DF Dilution Factor RL Reporting Limit
 J Analyte detected between MDL and RL S Spike Recovery outside control limits
 MDL Method Detection Limit N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070706A

Potassium	3440	14.1	282.9	3208	82.0	80	120			
Sodium	2660	14.1	282.9	2558	35.6	80	120			S

Sample ID:	0707004-08B MSD	Batch ID:	26454	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 08:11 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	343	2.24	56.04	88.84	454	80	120	48.5	25	SR
Calcium	99400	14.0	280.2	92150	2570	80	120	20.3	25	S
Iron	12300	14.0	280.2	11390	334	80	120	10.9	25	S
Magnesium	4160	14.0	280.2	3738	152	80	120	7.51	25	S
Potassium	3680	14.0	280.2	3208	168	80	120	6.70	25	S
Sodium	2890	14.0	280.2	2558	119	80	120	8.39	25	

Sample ID:	0707004-08B PDS	Batch ID:	26454	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 08:14 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	144	2.26	56.59	88.84	98.1	75	125			
Calcium	92400	14.1	1415	92150	18.0	75	125			S
Iron	12800	14.1	1415	11390	103	75	125			
Magnesium	5040	14.1	1415	3738	92.4	75	125			
Potassium	4590	14.1	1415	3208	97.8	75	125			
Sodium	3920	14.1	1415	2558	96.6	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070706A

Sample ID:	ICV2-070706	Batch ID:	R32533	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 04:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0967	0.0100	0.100	0	96.7	90	110			
Calcium	2.53	0.100	2.50	0	101	90	110			
Iron	2.52	0.100	2.50	0	101	90	110			
Magnesium	2.59	0.100	2.50	0	104	90	110			
Potassium	2.61	0.100	2.50	0	104	90	110			
Sodium	2.53	0.100	2.50	0	101	90	110			

Sample ID:	CCV6-070706	Batch ID:	R32533	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 07:26 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.203	0.0100	0.200	0	101	90	110			
Calcium	5.18	0.100	5.00	0	104	90	110			
Iron	4.96	0.100	5.00	0	99.3	90	110			
Magnesium	5.19	0.100	5.00	0	104	90	110			
Potassium	5.35	0.100	5.00	0	107	90	110			
Sodium	5.06	0.100	5.00	0	101	90	110			

Sample ID:	CCV7-070706	Batch ID:	R32533	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 08:22 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.205	0.0100	0.200	0	103	90	110			
Calcium	5.22	0.100	5.00	0	104	90	110			
Iron	5.10	0.100	5.00	0	102	90	110			
Magnesium	5.28	0.100	5.00	0	106	90	110			
Potassium	5.48	0.100	5.00	0	110	90	110			
Sodium	5.09	0.100	5.00	0	102	90	110			

Sample ID:	CCV8-070706	Batch ID:	R32533	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 09:00 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.192	0.0100	0.200	0	95.9	90	110			
Calcium	4.96	0.100	5.00	0	99.2	90	110			
Iron	4.97	0.100	5.00	0	99.3	90	110			
Magnesium	5.17	0.100	5.00	0	103	90	110			
Potassium	5.38	0.100	5.00	0	108	90	110			
Sodium	5.01	0.100	5.00	0	100	90	110			

Sample ID:	CCV9-070706	Batch ID:	R32533	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070706A	Analysis Date:	07/06/07 09:54 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.22	0.100	5.00	0	104	90	110			
Iron	4.80	0.100	5.00	0	96.1	90	110			
Magnesium	4.94	0.100	5.00	0	98.7	90	110			
Potassium	5.18	0.100	5.00	0	104	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070706A

Sodium	4.79	0.100	5.00	0	95.8	90	110
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Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: IC2_070709A

Sample ID:	MB-26473	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg			
SampType:	MBLK	Run ID:	IC2_070709A	Analysis Date:	07/09/07 09:57 AM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	5.00								
Chloride	ND	5.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID:	LCS-26473	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070709A	Analysis Date:	07/09/07 10:12 AM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	102	5.00	100.0	0	102	80	120			
Chloride	51.0	5.00	50.00	0	102	80	120			
Nitrate-N	25.5	5.00	25.00	0	102	80	120			
Sulfate	152	10.0	150.0	0	101	80	120			

Sample ID:	LCS-26473	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070709A	Analysis Date:	07/09/07 10:27 AM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	101	5.00	100.0	0	101	80	120	0.790	20	
Chloride	51.2	5.00	50.00	0	102	80	120	0.260	20	
Nitrate-N	25.4	5.00	25.00	0	102	80	120	0.475	20	
Sulfate	153	10.0	150.0	0	102	80	120	1.05	20	

Sample ID:	0707004-08A DUP	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	DUP	Run ID:	IC2_070709A	Analysis Date:	07/09/07 02:57 PM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	9.22	5.70	0	8.968				2.78	25	
Nitrate-N	0	5.70	0	0				0	25	
Sulfate	311	11.4	0	302.7				2.78	25	
Chloride	3230	285	0	3089				4.39	25	

Sample ID:	0707015-01A MS	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IC2_070709A	Analysis Date:	07/09/07 05:11 PM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	115	5.88	117.6	0	98.1	80	120			
Chloride	60.2	5.88	58.80	0	102	80	120			
Nitrate-N	29.8	5.88	29.40	0	101	80	120			
Sulfate	424	11.8	176.4	246.1	101	80	120			

Sample ID:	0707015-01A MSD	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IC2_070709A	Analysis Date:	07/09/07 05:25 PM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	115	5.88	117.6	0	98.2	80	120	0.0907	20	
Chloride	59.9	5.88	58.80	0	102	80	120	0.372	20	
Nitrate-N	29.8	5.88	29.40	0	102	80	120	0.0276	20	
Sulfate	422	11.8	176.4	246.1	99.9	80	120	0.284	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: IC2_070709A

Sample ID:	ICV-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	ICV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 09:41 AM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	51.8	5.00	50.00	0	104	90	110			
Chloride	25.8	5.00	25.00	0	103	90	110			
Nitrate-N	12.9	5.00	12.50	0	103	90	110			
Sulfate	77.3	10.0	75.00	0	103	90	110			

Sample ID:	CCV1-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 12:24 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.1	5.00	20.00	0	100	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.02	5.00	5.000	0	100	90	110			
Sulfate	29.9	10.0	30.00	0	99.7	90	110			

Sample ID:	CCV2-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 03:11 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.2	5.00	20.00	0	101	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.06	5.00	5.000	0	101	90	110			
Sulfate	29.6	10.0	30.00	0	98.7	90	110			

Sample ID:	CCV3-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 05:55 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.0	5.00	20.00	0	100	90	110			
Chloride	9.95	5.00	10.00	0	99.5	90	110			
Nitrate-N	5.03	5.00	5.000	0	101	90	110			
Sulfate	29.6	10.0	30.00	0	98.7	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: PH_070705A

Sample ID:	ICV	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	ICV	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	10.0	0	10.00	0	100	99	101			
Sample ID:	0707004-01A DUP	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.75	0	0	7.736				0.142	15	
Sample ID:	CCV1-070705	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.05	0	7.000	0	101	97.1	102.9			
Sample ID:	0706243-24A DUP	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	8.40	0	0	8.422				0.214	15	
Sample ID:	CCV2-070705	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT:	TRC Environmental Corp.	ANALYTICAL QC SUMMARY REPORT
Work Order:	0707004	
Project:	RRC-Petronila Creek Groundwater Investigation	RunID: PMOIST_070703A

Sample ID: 0707004-04B DUP	Batch ID: PMOIST_070703A	TestNo: D2216	Units: WT%		
SampType: DUP	Run ID: PMOIST_070703A	Analysis Date: 07/03/07 08:45 AM	Prep Date: 07/02/07		
Analyte	Result	RL	SPK value	Ref Val	%REC
Percent Moisture	19.6	0	0	19.66	
				LowLimit	HighLimit
				%RPD	RPD Limit
				0.489	30
					Qual
					N

Qualifiers:	B Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF Dilution Factor	RL	Reporting Limit
	J Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL Method Detection Limit	N	Parameter not NELAC certified
	ND Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070706A

Sample ID:	MB-26470	Batch ID:	26470	TestNo:	E310.1	Units:	mg/kg			
SampType:	MBLK	Run ID:	TITRATOR_070706A	Analysis Date:	07/06/07 10:06 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	50.0								
Alkalinity, Carbonate (As CaCO3)	ND	50.0								
Alkalinity, Hydroxide (As CaCO3)	ND	50.0								
Alkalinity, Total (As CaCO3)	ND	50.0								

Sample ID:	LCS-26470	Batch ID:	26470	TestNo:	E310.1	Units:	mg/kg			
SampType:	LCS	Run ID:	TITRATOR_070706A	Analysis Date:	07/06/07 10:10 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	270	50.0	250.0	0	108	81.6	123			

Sample ID:	0707004-08A DUP	Batch ID:	26470	TestNo:	E310.1	Units:	mg/kg-dry			
SampType:	DUP	Run ID:	TITRATOR_070706A	Analysis Date:	07/06/07 10:52 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	158	57.3	0	110.5				35.4	0	
Alkalinity, Carbonate (As CaCO3)	0	57.3	0	0				0	0	
Alkalinity, Hydroxide (As CaCO3)	0	57.3	0	0				0	0	
Alkalinity, Total (As CaCO3)	158	57.3	0	110.5				35.4	25	R

Sample ID:	0707015-04A DUP	Batch ID:	26470	TestNo:	E310.1	Units:	mg/kg-dry			
SampType:	DUP	Run ID:	TITRATOR_070706A	Analysis Date:	07/06/07 11:07 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	163	60.7	0	98.97				49.0	0	
Alkalinity, Carbonate (As CaCO3)	0	60.7	0	0				0	0	
Alkalinity, Hydroxide (As CaCO3)	0	60.7	0	0				0	0	
Alkalinity, Total (As CaCO3)	163	60.7	0	98.97				49.0	25	R

Sample ID:	LCSD-26470	Batch ID:	26470	TestNo:	E310.1	Units:	mg/kg			
SampType:	LCSD	Run ID:	TITRATOR_070706A	Analysis Date:	07/06/07 11:20 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	270	50.0	250.0	0	108	81.6	123	0.148	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070706A

Sample ID: ICV-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: ICV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 10:05 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	9.52	50.0	0
Alkalinity, Carbonate (As CaCO3)	92.0	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Sample ID: CCV1-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: CCV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 10:46 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	10.8	50.0	0
Alkalinity, Carbonate (As CaCO3)	91.5	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Sample ID: CCV2-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: CCV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 11:13 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	13.3	50.0	0
Alkalinity, Carbonate (As CaCO3)	88.5	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Sample ID: CCV3-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: CCV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 11:25 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	11.0	50.0	0
Alkalinity, Carbonate (As CaCO3)	91.0	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: WC_070705A

Sample ID: ICV-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: ICV Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12900 10.0 12880 0 100 90 110

Sample ID: MBLK-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: MBLK Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance ND 10.0

Sample ID: LCS-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: LCS Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 1380 10.0 1413 0 97.9 91 107

Sample ID: 0707004-01A DUP Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: DUP Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12500 10.0 0 11270 10.6 25

Sample ID: CCV1-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: CCV Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12800 10.0 12880 0 99.5 90 110

Sample ID: 0707015-04A DUP Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: DUP Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 2200 10.0 0 2140 2.76 25

Sample ID: CCV2-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: CCV Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12700 10.0 12880 0 98.3 90 110

Qualifiers: B Analyte detected in the associated Method Blank R RPD outside accepted control limits
 DF Dilution Factor RL Reporting Limit
 J Analyte detected between MDL and RL S Spike Recovery outside control limits
 MDL Method Detection Limit N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation RunID: WC_070711B

Sample ID: ICV-070711 Batch ID: CONDW-07/11/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: ICV Run ID: WC_070711B Analysis Date: 07/11/07 02:45 PM Prep Date: 07/11/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12900 10.0 12880 0 100 90 110

Sample ID: MBLK-070711 Batch ID: CONDW-07/11/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: MBLK Run ID: WC_070711B Analysis Date: 07/11/07 02:45 PM Prep Date: 07/11/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance ND 10.0

Sample ID: LCS-070711 Batch ID: CONDW-07/11/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: LCS Run ID: WC_070711B Analysis Date: 07/11/07 02:45 PM Prep Date: 07/11/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 1360 10.0 1413 0 96.0 91 107

Sample ID: 0707004-01A DUP Batch ID: CONDW-07/11/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: DUP Run ID: WC_070711B Analysis Date: 07/11/07 02:45 PM Prep Date: 07/11/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 17200 20.0 0 16940 1.76 25

Sample ID: CCV-070711 Batch ID: CONDW-07/11/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: CCV Run ID: WC_070711B Analysis Date: 07/11/07 02:45 PM Prep Date: 07/11/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12600 10.0 12880 0 98.2 90 110

Qualifiers: B Analyte detected in the associated Method Blank R RPD outside accepted control limits
 DF Dilution Factor RL Reporting Limit
 J Analyte detected between MDL and RL S Spike Recovery outside control limits
 MDL Method Detection Limit N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0707004
 Project: RRC-Petronila Creek Groundwater Investigation

MQL SUMMARY REPORT

TestNo: E310.1 Analyte	MDL mg/kg	MQL mg/kg
Alkalinity, Bicarbonate (As CaCO3)	50.0	50.0
Alkalinity, Carbonate (As CaCO3)	50.0	50.0
Alkalinity, Hydroxide (As CaCO3)	50.0	50.0
Alkalinity, Total (As CaCO3)	50.0	50.0
TestNo: SW9056 Analyte	MDL mg/Kg	MQL mg/Kg
Bromide	5.00	5.00
Chloride	5.00	5.00
Nitrate-N	5.00	5.00
Sulfate	10.0	10.0
TestNo: SW6020 Analyte	MDL mg/Kg	MQL mg/Kg
Barium	0.500	2.00
Calcium	12.5	12.5
Iron	12.5	12.5
Magnesium	12.5	12.5
Potassium	12.5	12.5
Sodium	12.5	12.5
TestNo: Agron 10-2.3 Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0

Qualifiers:
 MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



July 16, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0707015

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek Groundwater Investigation

Dear Steve Miller:

DHL Analytical received 4 sample(s) on 7/3/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-06-TX



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2300 Double Creek Drive • Round Rock, TX 78664
 Phone (512) 388-8222 • FAX (512) 388-8229

No 34394
CHAIN-OF-CUSTODY

CLIENT: TRC
 ADDRESS: 505 E Huntland Dr, St. 250, Austin, TX 78752
 PHONE: 512-329-6080 FAX 512-329-8750
 DATA REPORTED TO: Steve Miller
 ADDITIONAL REPORT COPIES TO: _____

DATE: 6/30/07 - 7/1/07 PAGE 1 OF 1
 PO #: _____ DHL WORK ORDER #: 0707015
 PROJECT LOCATION OR NAME: RRC Petronila Creek Groundwater Investigation
 CLIENT PROJECT #: 128161 COLLECTOR: Matt Weber, Dujo Clark

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION					ANALYSES	FIELD NOTES
							HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE	UNPRESERVED		
P-SB-07-6-B	01	6/30/07	1315	S	4oz	2						X X X X X X X X X X	Cations are
P-SB-07-8-10	02	6/30/07	1320	S	4oz	2						X X X X X X X X X X	Calcium, sodium,
P-SB-10-5-7	03	7/1/07	1045	S	4oz	2						X X X X X X X X X X	magnesium, p H-sam
P-SB-10-8-10	04	7/1/07	1050	S	4oz	2						X X X X X X X X X X	iron, barium
<div style="border: 1px solid black; width: 80%; margin: auto; padding: 10px;"> <p style="text-align: center;">MWW</p> </div>													
<p>Anions are Chloride, bromide, sulfate, nitrate</p> <p>Analysis must follow Petronila GAPP dated February 2007</p>													

TOTAL		DATE/TIME		RECEIVED BY: (Signature)		TURN AROUND TIME		LABORATORY USE ONLY:	
RELINQUISHED BY: (Signature)		7/2/07 1530		Fed Ex		RUSH <input type="checkbox"/> CALL FIRST		RECEIVING TEMP: <u>3.0°C</u> THERM #: <u>57</u>	
RELINQUISHED BY: (Signature)		7-3-07 9:00		Off		1 DAY <input type="checkbox"/> CALL FIRST		CUSTODY SEALS: <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NOT USED	
RELINQUISHED BY: (Signature)						2 DAY <input type="checkbox"/>		CARRIER BILL # <u>FX</u>	
						NORMAL <input checked="" type="checkbox"/>		<input type="checkbox"/> APC DELIVERY	
						OTHER <input type="checkbox"/>		<input type="checkbox"/> HAND DELIVERED	

DHL DISPOSAL @ \$5.00 each Return

CUSTODY SEAL
 DATE 7/2/07
 SIGNATURE Th

QEC
 Quality Environmental Containers
 800-255-3950 • 304-255-3900

FedEx US Airbill
 Express

FedEx Tracking Number **8625 4086 3449**

Form ID No. **0200** Recipient's Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From
 Date 7/2/07
 Sender's Name M.H. W. Co. Phone 512 971-1111
 Company TRC
 Address 505 E. Hillcrest Dr. 250
 City Austin State TX ZIP 78758

2 Your Internal Billing Reference 12011-0001-0001

3 To
 Recipient's Name Sample Billing Phone 512 500-1111
 Company DHL
 Recipient's Address 3200 Double Creek Drive
 We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Address Road Creek State TX ZIP 75001



8625 4086 3449

4a Express Package Service
 FedEx Priority Overnight
 FedEx Standard Overnight
 FedEx 2Day
 FedEx Express Saver

4b Express Freight Service
 FedEx 1Day Freight
 FedEx 2Day Freight

5 Packaging
 FedEx Envelope
 FedEx Pak
 FedEx Box
 Other

6 Special Handling
 SATURDAY Delivery
 HOLD Weekday at FedEx Location
 HOLD Saturday at FedEx Location
 No
 Yes
 Yes
 Dry Ice
 Cargo Aircraft Only

7 Payment Bill to:
 Sender
 Recipient
 Third Party
 Credit Card
 Cash/Check

Total Packages 1 Total Weight 1.14 Total Declared Value \$.00

8 Residential Delivery Signature Options
 No Signature Required
 Direct Signature
 Indirect Signature

fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL
 DATE 7/2/07
 SIGNATURE Th

QEC
 Quality Environmental Containers
 800-255-3950 • 304-255-3900

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

7-16-7
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: <u>RRC - Petronila Creek Groundwater Investigation</u>		Date: <u>7/13/07</u>					
Reviewer Name: <u>Laura Flowers</u>		Laboratory Work Order: <u>0707015</u>					
Prep Batch Number(s): <u>See Prep Dates Report</u>		Run Batch: <u>See Analytical Dates Report</u>					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?				✓	
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?	✓			✓	
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓			✓	
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?				✓	R5-04
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				✓	R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?				✓	R8-03
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: <i>RRC - Petronila Creek Groundwater</i>		Date: <i>7/13/07</i>					
Reviewer Name: <i>Laura Flowers</i>		Laboratory Work Order: <i>0707015</i>					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section I appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	✓	✓			<i>5901 7/13/07 LF</i>
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 7/3/2007

Work Order Number 0707015

Received by: DU

Checklist completed by: [Signature] 7.3.07 Date

Reviewed by: [Initials JD] 07/03/07 Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [] No [] Not Applicable [checked]

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707015

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E310.1 - Soluble Alkalinity of Soil
Method SW9056 - Anions Analysis
Method AGRON 10-2.3 - Electrical Conductance in Soil
Method SW9045C - pH of Solid (Corrosivity)
Method D2216 - Percent Moisture (Parameter Not NELAC Certified)

Exception Report R1-01

Samples were received and log-in performed on 7/3/07. A total of 4 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For Metals analysis, Calcium was detected above the reporting limit in the method blank (MB-26464). The Calcium concentration in all the samples was more than 10x the concentration in the method blank. No further corrective actions were taken.

Exception Report R7-03

For Metals analysis, the recoveries of the matrix spike (0707012-04C MS) and matrix spike duplicate (0707012-04C MSD) were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken and no sample results were adversely affected.

Exception Report R8-03

For Alkalinity analysis, the RPD of the sample duplicates (0707004-08A DUP and 0707015-04A DUP) were above control limits. These are flagged accordingly in the QC summary report. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707015

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0707015-01	P-SB-07-6-8		06/30/07 01:15 PM	07/03/07
0707015-02	P-SB-07-8-10		06/30/07 01:20 PM	07/03/07
0707015-03	P-SB-10-5-7		07/01/07 10:45 AM	07/03/07
0707015-04	P-SB-10-8-10		07/01/07 10:50 AM	07/03/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707015

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0707015-01A	P-SB-07-6-8	06/30/07 01:15 PM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-07-6-8	06/30/07 01:15 PM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-07-6-8	06/30/07 01:15 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-07-6-8	06/30/07 01:15 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707015-01B	P-SB-07-6-8	06/30/07 01:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-07-6-8	06/30/07 01:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-07-6-8	06/30/07 01:15 PM	Soil	D2216	Percent Moisture	07/03/07 06:00 PM	PMOIST_070705A
0707015-02A	P-SB-07-8-10	06/30/07 01:20 PM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-07-8-10	06/30/07 01:20 PM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-07-8-10	06/30/07 01:20 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-07-8-10	06/30/07 01:20 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707015-02B	P-SB-07-8-10	06/30/07 01:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-07-8-10	06/30/07 01:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-07-8-10	06/30/07 01:20 PM	Soil	D2216	Percent Moisture	07/03/07 06:00 PM	PMOIST_070705A
0707015-03A	P-SB-10-5-7	07/01/07 10:45 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-10-5-7	07/01/07 10:45 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-10-5-7	07/01/07 10:45 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-10-5-7	07/01/07 10:45 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707015-03B	P-SB-10-5-7	07/01/07 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-10-5-7	07/01/07 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-10-5-7	07/01/07 10:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-10-5-7	07/01/07 10:45 AM	Soil	D2216	Percent Moisture	07/03/07 06:00 PM	PMOIST_070705A
0707015-04A	P-SB-10-8-10	07/01/07 10:50 AM	Soil	USDA 60	1:5 Water Extract	07/05/07 03:44 PM	26470
	P-SB-10-8-10	07/01/07 10:50 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-10-8-10	07/01/07 10:50 AM	Soil	SW9056	Anion Prep	07/06/07 09:17 AM	26473
	P-SB-10-8-10	07/01/07 10:50 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/05/07	PH_S-07/05/07
	P-SB-10-8-10	07/01/07 10:50 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/05/07	CONDW-07/05/07
0707015-04B	P-SB-10-8-10	07/01/07 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-10-8-10	07/01/07 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707015

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-SB-10-8-10	07/01/07 10:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/05/07 11:50 AM	26464
	P-SB-10-8-10	07/01/07 10:50 AM	Soil	D2216	Percent Moisture	07/03/07 06:00 PM	PMOIST_070705A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707015

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0707015-01A	P-SB-07-6-8	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 04:12 PM	IC2_070709A
	P-SB-07-6-8	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-07-6-8	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-07-6-8	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 10:55 AM	TITRATOR_070706A
0707015-01B	P-SB-07-6-8	Soil	D2216	Percent Moisture	PMOIST_070705A	1	07/05/07 09:07 AM	PMOIST_070705A
	P-SB-07-6-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	50	07/12/07 12:34 PM	ICP-MS_070712A
	P-SB-07-6-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	20	07/09/07 05:25 PM	ICP-MS3_070709A
0707015-02A	P-SB-07-8-10	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 04:27 PM	IC2_070709A
	P-SB-07-8-10	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-07-8-10	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-07-8-10	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 11:00 AM	TITRATOR_070706A
0707015-02B	P-SB-07-8-10	Soil	D2216	Percent Moisture	PMOIST_070705A	1	07/05/07 09:07 AM	PMOIST_070705A
	P-SB-07-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	50	07/12/07 12:39 PM	ICP-MS_070712A
	P-SB-07-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	20	07/09/07 05:29 PM	ICP-MS3_070709A
0707015-03A	P-SB-10-5-7	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 04:41 PM	IC2_070709A
	P-SB-10-5-7	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-10-5-7	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-10-5-7	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 11:03 AM	TITRATOR_070706A
0707015-03B	P-SB-10-5-7	Soil	D2216	Percent Moisture	PMOIST_070705A	1	07/05/07 09:07 AM	PMOIST_070705A
	P-SB-10-5-7	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	50	07/12/07 12:43 PM	ICP-MS_070712A
	P-SB-10-5-7	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	200	07/12/07 12:47 PM	ICP-MS_070712A
	P-SB-10-5-7	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	20	07/09/07 05:33 PM	ICP-MS3_070709A
0707015-04A	P-SB-10-8-10	Soil	SW9056	Anions by IC method - Soil	26473	1	07/09/07 04:56 PM	IC2_070709A
	P-SB-10-8-10	Soil	SW9056	Anions by IC method - Soil	26473	10	07/09/07 05:40 PM	IC2_070709A
	P-SB-10-8-10	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/05/07	1	07/05/07 03:05 PM	WC_070705A
	P-SB-10-8-10	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/05/07	1	07/05/07 01:45 PM	PH_070705A
	P-SB-10-8-10	Soil	E310.1	Soluble Alkalinity of Soil	26470	1	07/06/07 11:06 AM	TITRATOR_070706A
0707015-04B	P-SB-10-8-10	Soil	D2216	Percent Moisture	PMOIST_070705A	1	07/05/07 09:07 AM	PMOIST_070705A
	P-SB-10-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	50	07/12/07 12:51 PM	ICP-MS_070712A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707015

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-SB-10-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	100	07/12/07 12:55 PM	ICP-MS_070712A
	P-SB-10-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26464	20	07/09/07 05:38 PM	ICP-MS3_070709A

DHL Analytical

Date: 07/16/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-07-6-8
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707015-01
Project No:	128161	Collection Date:	06/30/07 01:15 PM
Lab Order:	0707015	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: MW			
Barium	137	2.16	8.63		mg/Kg-dry	20	07/09/07 05:25 PM
Calcium	12700	135	135		mg/Kg-dry	50	07/12/07 12:34 PM
Iron	11300	53.9	53.9		mg/Kg-dry	20	07/09/07 05:25 PM
Magnesium	3850	53.9	53.9		mg/Kg-dry	20	07/09/07 05:25 PM
Potassium	2890	53.9	53.9		mg/Kg-dry	20	07/09/07 05:25 PM
Sodium	446	53.9	53.9		mg/Kg-dry	20	07/09/07 05:25 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	115	59.0	59.0		mg/kg-dry	1	07/06/07 10:55 AM
Alkalinity, Carbonate (As CaCO3)	ND	59.0	59.0		mg/kg-dry	1	07/06/07 10:55 AM
Alkalinity, Hydroxide (As CaCO3)	ND	59.0	59.0		mg/kg-dry	1	07/06/07 10:55 AM
Alkalinity, Total (As CaCO3)	115	59.0	59.0		mg/kg-dry	1	07/06/07 10:55 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	5.88	5.88		mg/Kg-dry	1	07/09/07 04:12 PM
Chloride	ND	5.88	5.88		mg/Kg-dry	1	07/09/07 04:12 PM
Nitrate-N	ND	5.88	5.88		mg/Kg-dry	1	07/09/07 04:12 PM
Sulfate	410	11.8	11.8		mg/Kg-dry	1	07/09/07 04:12 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.30	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	16.5	0	0	N	WT%	1	07/05/07 09:07 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	499	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/16/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-07-8-10
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707015-02
Project No:	128161	Collection Date:	06/30/07 01:20 PM
Lab Order:	0707015	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: MW			
Barium	60.7	2.22	8.89		mg/Kg-dry	20	07/09/07 05:29 PM
Calcium	22300	139	139		mg/Kg-dry	50	07/12/07 12:39 PM
Iron	12900	139	139		mg/Kg-dry	50	07/12/07 12:39 PM
Magnesium	4300	55.5	55.5		mg/Kg-dry	20	07/09/07 05:29 PM
Potassium	3380	55.5	55.5		mg/Kg-dry	20	07/09/07 05:29 PM
Sodium	792	55.5	55.5		mg/Kg-dry	20	07/09/07 05:29 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	277	59.0	59.0		mg/kg-dry	1	07/06/07 11:00 AM
Alkalinity, Carbonate (As CaCO3)	149	59.0	59.0		mg/kg-dry	1	07/06/07 11:00 AM
Alkalinity, Hydroxide (As CaCO3)	ND	59.0	59.0		mg/kg-dry	1	07/06/07 11:00 AM
Alkalinity, Total (As CaCO3)	426	59.0	59.0		mg/kg-dry	1	07/06/07 11:00 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	5.84	5.84		mg/Kg-dry	1	07/09/07 04:27 PM
Chloride	ND	5.84	5.84		mg/Kg-dry	1	07/09/07 04:27 PM
Nitrate-N	ND	5.84	5.84		mg/Kg-dry	1	07/09/07 04:27 PM
Sulfate	395	11.7	11.7		mg/Kg-dry	1	07/09/07 04:27 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.53	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	15.9	0	0	N	WT%	1	07/05/07 09:07 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	615	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/16/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-10-5-7
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707015-03
Project No:	128161	Collection Date:	07/01/07 10:45 AM
Lab Order:	0707015	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: MW			
Barium	287	2.38	9.54		mg/Kg-dry	20	07/09/07 05:33 PM
Calcium	60500	596	596		mg/Kg-dry	200	07/12/07 12:47 PM
Iron	18800	149	149		mg/Kg-dry	50	07/12/07 12:43 PM
Magnesium	8000	59.6	59.6		mg/Kg-dry	20	07/09/07 05:33 PM
Potassium	6800	59.6	59.6		mg/Kg-dry	20	07/09/07 05:33 PM
Sodium	1010	59.6	59.6		mg/Kg-dry	20	07/09/07 05:33 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	170	62.4	62.4		mg/kg-dry	1	07/06/07 11:03 AM
Alkalinity, Carbonate (As CaCO3)	ND	62.4	62.4		mg/kg-dry	1	07/06/07 11:03 AM
Alkalinity, Hydroxide (As CaCO3)	ND	62.4	62.4		mg/kg-dry	1	07/06/07 11:03 AM
Alkalinity, Total (As CaCO3)	170	62.4	62.4		mg/kg-dry	1	07/06/07 11:03 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	6.22	6.22		mg/Kg-dry	1	07/09/07 04:41 PM
Chloride	41.2	6.22	6.22		mg/Kg-dry	1	07/09/07 04:41 PM
Nitrate-N	ND	6.22	6.22		mg/Kg-dry	1	07/09/07 04:41 PM
Sulfate	456	12.4	12.4		mg/Kg-dry	1	07/09/07 04:41 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.21	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	20.9	0	0	N	WT%	1	07/05/07 09:07 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	545	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/16/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-10-8-10
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707015-04
Project No:	128161	Collection Date:	07/01/07 10:50 AM
Lab Order:	0707015	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: MW			
Barium	114	2.08	8.32		mg/Kg-dry	20	07/09/07 05:38 PM
Calcium	38800	260	260		mg/Kg-dry	100	07/12/07 12:55 PM
Iron	18400	130	130		mg/Kg-dry	50	07/12/07 12:51 PM
Magnesium	7440	52.0	52.0		mg/Kg-dry	20	07/09/07 05:38 PM
Potassium	6730	52.0	52.0		mg/Kg-dry	20	07/09/07 05:38 PM
Sodium	728	52.0	52.0		mg/Kg-dry	20	07/09/07 05:38 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	99.0	61.1	61.1		mg/kg-dry	1	07/06/07 11:06 AM
Alkalinity, Carbonate (As CaCO3)	ND	61.1	61.1		mg/kg-dry	1	07/06/07 11:06 AM
Alkalinity, Hydroxide (As CaCO3)	ND	61.1	61.1		mg/kg-dry	1	07/06/07 11:06 AM
Alkalinity, Total (As CaCO3)	99.0	61.1	61.1		mg/kg-dry	1	07/06/07 11:06 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	6.13	6.13		mg/Kg-dry	1	07/09/07 04:56 PM
Chloride	165	6.13	6.13		mg/Kg-dry	1	07/09/07 04:56 PM
Nitrate-N	8.44	6.13	6.13		mg/Kg-dry	1	07/09/07 04:56 PM
Sulfate	4340	123	123		mg/Kg-dry	10	07/09/07 05:40 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.61	0	0		pH Units	1	07/05/07 01:45 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	18.5	0	0	N	WT%	1	07/05/07 09:07 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	2140	10.0	10.0		µmhos/cm	1	07/05/07 03:05 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS_070712A

Sample ID:	MB-26464	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 11:42 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium	ND	12.5								

Sample ID:	LCS-26464	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 11:46 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	47.7	2.00	50.00	0	95.4	80	120			
Calcium	288	12.5	250.0	0	115	80	120			
Iron	271	12.5	250.0	0	108	80	120			
Magnesium	260	12.5	250.0	0	104	80	120			
Potassium	254	12.5	250.0	0	102	80	120			
Sodium	268	12.5	250.0	0	107	80	120			

Sample ID:	LCS-26464	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 11:50 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	50.7	2.00	50.00	0	101	80	120	6.10	25	
Calcium	292	12.5	250.0	0	117	80	120	1.29	25	
Iron	294	12.5	250.0	0	117	80	120	8.06	25	
Magnesium	288	12.5	250.0	0	115	80	120	10.1	25	
Potassium	265	12.5	250.0	0	106	80	120	3.95	25	
Sodium	293	12.5	250.0	0	117	80	120	8.64	25	

Sample ID:	0707012-04C SD	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 11:58 AM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	99.4	11.6	0	100.9				1.50	10	
Sodium	301	72.3	0	277.5				8.16	10	

Sample ID:	0707012-04C PDS	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 12:02 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	161	2.31	57.85	100.9	104	75	125			
Sodium	1640	14.5	1446	277.5	94.0	75	125			

Sample ID:	0707012-04C MS	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 12:07 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	188	2.17	54.30	100.9	161	80	120			S
Sodium	544	13.6	271.5	277.5	98.3	80	120			

Sample ID:	0707012-04C MSD	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 12:11 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	236	2.31	57.85	100.9	234	80	120	22.6	25	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS_070712A

Sodium 563 14.5 289.3 277.5 98.7 80 120 3.35 25

Sample ID:	0707012-04C MS	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 03:28 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	11600	271	271.5	10980	226	80	120			S
Iron	4430	271	271.5	4230	74.1	80	120			S
Potassium	926	271	271.5	783.9	52.3	80	120			S

Sample ID:	0707012-04C MSD	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 03:32 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	10100	289	289.3	10980	-288	80	120	13.3	25	S
Iron	4120	289	289.3	4230	-38.4	80	120	7.31	25	S
Potassium	839	289	289.3	783.9	19.0	80	120	9.86	25	S

Sample ID:	0707012-04C PDS	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 03:36 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	27600	289	28930	4230	80.8	75	125			
Potassium	28400	289	28930	783.9	95.6	75	125			

Sample ID:	0707012-04C SD	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 03:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	3860	1450	0	4230				9.18	10	
Potassium	0	1450	0	783.9				0	10	
Calcium	60700	1450	0	57760				4.93	10	
Magnesium	7650	1450	0	7197				6.12	10	

Sample ID:	0707012-04C PDS	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 06:24 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	88200	289	28930	57760	105	75	125			
Magnesium	34300	289	28930	7197	93.6	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS_070712A

Sample ID:	ICV1-070712	Batch ID:	R32586	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 11:20 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0982	0.0100	0.100	0	98.2	90	110			
Calcium	2.44	0.100	2.50	0	97.6	90	110			
Iron	2.50	0.100	2.50	0	100	90	110			
Magnesium	2.53	0.100	2.50	0	101	90	110			
Potassium	2.43	0.100	2.50	0	97.3	90	110			
Sodium	2.53	0.100	2.50	0	101	90	110			

Sample ID:	CCV1-070712	Batch ID:	R32586	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 12:19 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	100	90	110			
Calcium	5.44	0.100	5.00	0	109	90	110			
Iron	5.16	0.100	5.00	0	103	90	110			
Magnesium	5.33	0.100	5.00	0	107	90	110			
Potassium	5.11	0.100	5.00	0	102	90	110			
Sodium	5.32	0.100	5.00	0	106	90	110			

Sample ID:	CCV2-070712	Batch ID:	R32586	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 01:03 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.42	0.100	5.00	0	108	90	110			
Iron	5.12	0.100	5.00	0	102	90	110			

Sample ID:	CCV4-070712	Batch ID:	R32586	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 02:45 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.35	0.100	5.00	0	107	90	110			
Iron	5.06	0.100	5.00	0	101	90	110			
Potassium	5.22	0.100	5.00	0	104	90	110			

Sample ID:	CCV5-070712	Batch ID:	R32586	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 04:34 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.82	0.100	5.00	0	96.4	90	110			
Iron	4.69	0.100	5.00	0	93.8	90	110			
Potassium	4.99	0.100	5.00	0	99.7	90	110			

Sample ID:	ICV2-070712	Batch ID:	R32586	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 05:40 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.47	0.100	2.50	0	98.7	90	110			
Iron	2.45	0.100	2.50	0	97.8	90	110			
Magnesium	2.50	0.100	2.50	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070712A

Sample ID:	CCV6-070712	Batch ID:	R32586	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070712A	Analysis Date:	07/12/07 06:32 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.84	0.100	5.00	0	96.8	90	110			
Iron	4.84	0.100	5.00	0	96.8	90	110			
Magnesium	4.73	0.100	5.00	0	94.6	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070709A

Sample ID:	ICV1-070709	Batch ID:	R32536	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070709A	Analysis Date:	07/09/07 02:52 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.101	0.0100	0.100	0	101	90	110			
Calcium	2.66	0.100	2.50	0	107	90	110			
Iron	2.55	0.100	2.50	0	102	90	110			
Magnesium	2.55	0.100	2.50	0	102	90	110			
Potassium	2.53	0.100	2.50	0	101	90	110			
Sodium	2.53	0.100	2.50	0	101	90	110			

Sample ID:	CCV2-070709	Batch ID:	R32536	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070709A	Analysis Date:	07/09/07 05:06 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	90	110			
Calcium	5.24	0.100	5.00	0	105	90	110			
Iron	5.12	0.100	5.00	0	102	90	110			
Magnesium	5.24	0.100	5.00	0	105	90	110			
Potassium	5.20	0.100	5.00	0	104	90	110			
Sodium	5.08	0.100	5.00	0	102	90	110			

Sample ID:	CCV3-070709	Batch ID:	R32536	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070709A	Analysis Date:	07/09/07 06:04 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.193	0.0100	0.200	0	96.3	90	110			
Iron	5.09	0.100	5.00	0	102	90	110			
Magnesium	5.32	0.100	5.00	0	106	90	110			
Potassium	5.33	0.100	5.00	0	107	90	110			
Sodium	5.10	0.100	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070710A

Sample ID:	MB-26464	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS3_070710A	Analysis Date:	07/10/07 02:39 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	2.00								
Calcium	46.0	12.5								
Iron	ND	12.5								
Potassium	ND	12.5								
Sodium	ND	12.5								

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070710A

Sample ID:	ICV1-070710	Batch ID:	R32553	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070710A	Analysis Date:	07/10/07 01:50 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0948	0.0100	0.100	0	94.8	90	110			
Calcium	2.46	0.100	2.50	0	98.5	90	110			
Iron	2.30	0.100	2.50	0	91.9	90	110			
Potassium	2.45	0.100	2.50	0	98.1	90	110			
Sodium	2.25	0.100	2.50	0	90.0	90	110			

Sample ID:	CCV1-070710	Batch ID:	R32553	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070710A	Analysis Date:	07/10/07 03:32 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.208	0.0100	0.200	0	104	90	110			
Calcium	5.07	0.100	5.00	0	101	90	110			
Iron	4.94	0.100	5.00	0	98.8	90	110			
Potassium	5.21	0.100	5.00	0	104	90	110			
Sodium	5.00	0.100	5.00	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070713A

Sample ID:	0707012-04C MS	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry				
SampType:	MS	Run ID:	ICP-MS3_070713A	Analysis Date:	07/13/07 12:51 PM	Prep Date:	07/05/07				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium		7730	271	271.5	7370	133	80	120			S

Sample ID:	0707012-04C MSD	Batch ID:	26464	TestNo:	SW6020	Units:	mg/Kg-dry				
SampType:	MSD	Run ID:	ICP-MS3_070713A	Analysis Date:	07/13/07 12:55 PM	Prep Date:	07/05/07				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium		7820	289	289.3	7370	154	80	120	18.2	25	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070713A

Sample ID:	ICV1-070713	Batch ID:	R32595	TestNo:	SW6020	Units:	mg/L				
SampType:	ICV	Run ID:	ICP-MS3_070713A	Analysis Date:	07/13/07 12:26 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium		2.58	0.100	2.50	0	103	90	110			

Sample ID:	CCV1-070713	Batch ID:	R32595	TestNo:	SW6020	Units:	mg/L				
SampType:	CCV	Run ID:	ICP-MS3_070713A	Analysis Date:	07/13/07 01:06 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium		4.93	0.100	5.00	0	98.6	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: IC2_070709A

Sample ID:	MB-26473	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg			
SampType:	MBLK	Run ID:	IC2_070709A	Analysis Date:	07/09/07 09:57 AM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	5.00								
Chloride	ND	5.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID:	LCS-26473	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070709A	Analysis Date:	07/09/07 10:12 AM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	102	5.00	100.0	0	102	80	120			
Chloride	51.0	5.00	50.00	0	102	80	120			
Nitrate-N	25.5	5.00	25.00	0	102	80	120			
Sulfate	152	10.0	150.0	0	101	80	120			

Sample ID:	LCS-26473	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070709A	Analysis Date:	07/09/07 10:27 AM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	101	5.00	100.0	0	101	80	120	0.790	20	
Chloride	51.2	5.00	50.00	0	102	80	120	0.260	20	
Nitrate-N	25.4	5.00	25.00	0	102	80	120	0.475	20	
Sulfate	153	10.0	150.0	0	102	80	120	1.05	20	

Sample ID:	0707004-08A DUP	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	DUP	Run ID:	IC2_070709A	Analysis Date:	07/09/07 02:57 PM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	9.22	5.70	0	8.968				2.78	25	
Nitrate-N	0	5.70	0	0				0	25	
Sulfate	311	11.4	0	302.7				2.78	25	
Chloride	3230	285	0	3089				4.39	25	

Sample ID:	0707015-01A MS	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IC2_070709A	Analysis Date:	07/09/07 05:11 PM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	115	5.88	117.6	0	98.1	80	120			
Chloride	60.2	5.88	58.80	0	102	80	120			
Nitrate-N	29.8	5.88	29.40	0	101	80	120			
Sulfate	424	11.8	176.4	246.1	101	80	120			

Sample ID:	0707015-01A MSD	Batch ID:	26473	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IC2_070709A	Analysis Date:	07/09/07 05:25 PM	Prep Date:	07/06/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	115	5.88	117.6	0	98.2	80	120	0.0907	20	
Chloride	59.9	5.88	58.80	0	102	80	120	0.372	20	
Nitrate-N	29.8	5.88	29.40	0	102	80	120	0.0276	20	
Sulfate	422	11.8	176.4	246.1	99.9	80	120	0.284	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: IC2_070709A

Sample ID:	ICV-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	ICV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 09:41 AM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	51.8	5.00	50.00	0	104	90	110			
Chloride	25.8	5.00	25.00	0	103	90	110			
Nitrate-N	12.9	5.00	12.50	0	103	90	110			
Sulfate	77.3	10.0	75.00	0	103	90	110			

Sample ID:	CCV1-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 12:24 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.1	5.00	20.00	0	100	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.02	5.00	5.000	0	100	90	110			
Sulfate	29.9	10.0	30.00	0	99.7	90	110			

Sample ID:	CCV2-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 03:11 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.2	5.00	20.00	0	101	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.06	5.00	5.000	0	101	90	110			
Sulfate	29.6	10.0	30.00	0	98.7	90	110			

Sample ID:	CCV3-070709	Batch ID:	R32529	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070709A	Analysis Date:	07/09/07 05:55 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.0	5.00	20.00	0	100	90	110			
Chloride	9.95	5.00	10.00	0	99.5	90	110			
Nitrate-N	5.03	5.00	5.000	0	101	90	110			
Sulfate	29.6	10.0	30.00	0	98.7	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: PH_070705A

Sample ID:	ICV	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	ICV	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	10.0	0	10.00	0	100	99	101			
Sample ID:	0707004-01A DUP	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.75	0	0	7.736				0.142	15	
Sample ID:	CCV1-070705	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.05	0	7.000	0	101	97.1	102.9			
Sample ID:	0706243-24A DUP	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	8.40	0	0	8.422				0.214	15	
Sample ID:	CCV2-070705	Batch ID:	PH_S-07/05/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070705A	Analysis Date:	07/05/07 01:45 PM	Prep Date:	07/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT:	TRC Environmental Corp.	ANALYTICAL QC SUMMARY REPORT
Work Order:	0707015	
Project:	RRC-Petronila Creek Groundwater Investigation	RunID: PMOIST_070705A

Sample ID:	0707019-05B DUP	Batch ID:	PMOIST_070705A	TestNo:	D2216	Units:	WT%				
SampType:	DUP	Run ID:	PMOIST_070705A	Analysis Date:	07/05/07 09:07 AM	Prep Date:	07/03/07				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture		15.8	0	0	16.12				2.18	30	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070706A

Sample ID: MB-26470	Batch ID: 26470	TestNo: E310.1	Units: mg/kg
SampType: MBLK	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 10:06 AM	Prep Date: 07/05/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	ND	50.0	
Alkalinity, Carbonate (As CaCO3)	ND	50.0	
Alkalinity, Hydroxide (As CaCO3)	ND	50.0	
Alkalinity, Total (As CaCO3)	ND	50.0	

Sample ID: LCS-26470	Batch ID: 26470	TestNo: E310.1	Units: mg/kg
SampType: LCS	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 10:10 AM	Prep Date: 07/05/07
Analyte	Result	RL	SPK value
Alkalinity, Total (As CaCO3)	270	50.0	250.0

Sample ID: 0707004-08A DUP	Batch ID: 26470	TestNo: E310.1	Units: mg/kg-dry
SampType: DUP	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 10:52 AM	Prep Date: 07/05/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	158	57.3	0
Alkalinity, Carbonate (As CaCO3)	0	57.3	0
Alkalinity, Hydroxide (As CaCO3)	0	57.3	0
Alkalinity, Total (As CaCO3)	158	57.3	0

Sample ID: 0707015-04A DUP	Batch ID: 26470	TestNo: E310.1	Units: mg/kg-dry
SampType: DUP	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 11:07 AM	Prep Date: 07/05/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	163	60.7	0
Alkalinity, Carbonate (As CaCO3)	0	60.7	0
Alkalinity, Hydroxide (As CaCO3)	0	60.7	0
Alkalinity, Total (As CaCO3)	163	60.7	0

Sample ID: LCSD-26470	Batch ID: 26470	TestNo: E310.1	Units: mg/kg
SampType: LCSD	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 11:20 AM	Prep Date: 07/05/07
Analyte	Result	RL	SPK value
Alkalinity, Total (As CaCO3)	270	50.0	250.0

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070706A

Sample ID: ICV-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: ICV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 10:05 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	9.52	50.0	0
Alkalinity, Carbonate (As CaCO3)	92.0	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Sample ID: CCV1-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: CCV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 10:46 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	10.8	50.0	0
Alkalinity, Carbonate (As CaCO3)	91.5	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Sample ID: CCV2-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: CCV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 11:13 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	13.3	50.0	0
Alkalinity, Carbonate (As CaCO3)	88.5	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Sample ID: CCV3-070706	Batch ID: R32513	TestNo: E310.1	Units: mg/L
SampType: CCV	Run ID: TITRATOR_070706A	Analysis Date: 07/06/07 11:25 AM	Prep Date: 07/06/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	11.0	50.0	0
Alkalinity, Carbonate (As CaCO3)	91.0	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	102	50.0	100.0
		0	102
		90	110

Qualifiers: B Analyte detected in the associated Method Blank R RPD outside accepted control limits
 DF Dilution Factor RL Reporting Limit
 J Analyte detected between MDL and RL S Spike Recovery outside control limits
 MDL Method Detection Limit N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation RunID: WC_070705A

Sample ID: ICV-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: ICV Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12900 10.0 12880 0 100 90 110

Sample ID: MBLK-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: MBLK Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance ND 10.0

Sample ID: LCS-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: LCS Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 1380 10.0 1413 0 97.9 91 107

Sample ID: 0707004-01A DUP Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: DUP Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12500 10.0 0 11270 10.6 25

Sample ID: CCV1-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: CCV Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12800 10.0 12880 0 99.5 90 110

Sample ID: 0707015-04A DUP Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: DUP Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 2200 10.0 0 2140 2.76 25

Sample ID: CCV2-070705 Batch ID: CONDW-07/05/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: CCV Run ID: WC_070705A Analysis Date: 07/05/07 03:05 PM Prep Date: 07/05/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12700 10.0 12880 0 98.3 90 110

Qualifiers: B Analyte detected in the associated Method Blank R RPD outside accepted control limits
 DF Dilution Factor RL Reporting Limit
 J Analyte detected between MDL and RL S Spike Recovery outside control limits
 MDL Method Detection Limit N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0707015
 Project: RRC-Petronila Creek Groundwater Investigation

MQL SUMMARY REPORT

TestNo: E310.1 Analyte	MDL mg/kg	MQL mg/kg
Alkalinity, Bicarbonate (As CaCO ₃)	50.0	50.0
Alkalinity, Carbonate (As CaCO ₃)	50.0	50.0
Alkalinity, Hydroxide (As CaCO ₃)	50.0	50.0
Alkalinity, Total (As CaCO ₃)	50.0	50.0
TestNo: SW9056 Analyte	MDL mg/Kg	MQL mg/Kg
Bromide	5.00	5.00
Chloride	5.00	5.00
Nitrate-N	5.00	5.00
Sulfate	10.0	10.0
TestNo: SW6020 Analyte	MDL mg/Kg	MQL mg/Kg
Barium	0.500	2.00
Calcium	12.5	12.5
Iron	12.5	12.5
Magnesium	12.5	12.5
Potassium	12.5	12.5
Sodium	12.5	12.5
TestNo: Agron 10-2.3 Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0

Qualifiers:

MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



July 17, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0707030

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek Groundwater Investigation

Dear Steve Miller:

DHL Analytical received 4 sample(s) on 7/6/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-06-TX



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2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

No 34395
CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr., Ste 250, Austin, TX 78752
PHONE: 512-329-6000 FAX: 512-329-8250
DATA REPORTED TO: Steve Miller
ADDITIONAL REPORT COPIES TO: _____

DATE: 7/26/07 - 7/5/07 PAGE 1 OF 1
PO #: _____ DHL WORK ORDER #: 0707030
PROJECT LOCATION OR NAME: Petronila Creek Groundwater Investigation
CLIENT PROJECT #: 128161 COLLECTOR: Matt Weber, Dawn
Elaine Saitton

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
							HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE			UNPRESERVED
P-SB-11-8-9	01	7/26/07	0755	S	4oz.	2					X	X	
P-SB-11-11-12	02	7/26/07	0800	S	4oz.	6					X	X	MS/MSD Sample
P-SB-12-7-8	03	7/5/07	0800	S	4oz.	2					X	X	
P-SB-12-9-10	04	7/5/07	0810	S	4oz.	2					X	X	* Anions are Cl ⁻ , Br ⁻ , SO ₄ ²⁻ , NO ₃ ⁻
													* Cations are Ca ²⁺ , Na ⁺ , Mg ²⁺ , K ⁺ , Fe ²⁺ , Ba ²⁺
													* alkalinity is carbonate + bicarbonate
													use most recent QAPP (Petronila, Feb 07)

TOTAL _____

RELINQUISHED BY: (Signature) <u>[Signature]</u>	DATE/TIME <u>7/26/07 1500</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	DATE/TIME <u>7/26/07 1500</u>	TURN AROUND TIME RUSH <input type="checkbox"/> CALL FIRST 1 DAY <input type="checkbox"/> CALL FIRST 2 DAY <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> _____	LABORATORY USE ONLY: RECEIVING TEMP <u>04°C</u> THERM #: <u>S1</u> CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED <input type="checkbox"/> CARRIER BILL # _____ <input type="checkbox"/> APC DELIVERY <input checked="" type="checkbox"/> HAND DELIVERED
RELINQUISHED BY: (Signature) _____	DATE/TIME _____	RECEIVED BY: (Signature) _____	DATE/TIME _____		
RELINQUISHED BY: (Signature) _____	DATE/TIME _____	RECEIVED BY: (Signature) _____	DATE/TIME _____		

DHL DISPOSAL @ \$5.00 each Return

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

7-17-7
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC-Petronia Creek Groundwater Investigation 7/17/07

Reviewer Name: Carlos Castro

Laboratory Work Order: 0707030

Prep Batch Number(s): See Prep Dates Report

Run Batch: See Analytical Dates Report

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?			✓		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			✓		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?		✓			R5-04
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		✓			R6-04
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: RDC - Petronilla Creek Groundwater Investigation Date: 7/17/07

Reviewer Name: Carlos Castro

Laboratory Work Order: 0707030

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	✓				
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 7/6/2007

Work Order Number 0707030

Received by: CAC

Checklist completed by: [Signature] 7.6.07
Signature Date

Reviewed by: [Initials] 7/6/07
Initials Date

Carrier name: Hand Delivered

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [] No [] Not Applicable [checked]

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707030

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E310.1 - Alkalinity Analysis
Method SW9056 - Anions Analysis
Method AGRON 10-2.3 - Electrical Conductance in Soil
Method SW9045C - pH of Solid (Corrosivity)
Method D2216 - Percent Moisture

Exception Report R1-01

Samples were received and log-in performed on 7/6/07. A total of 4 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For Metals analysis performed on 7/16/07 Calcium was detected above the reporting limit in the method blank (MB-26486). All samples were detected greater than 10 times the amount in the blank. No further corrective actions were required and no sample results were adversely affected.

Exception Report R6-04

For Metals analysis performed on 7/16/07 the LCS/LCSD recoveries were above control limits for Calcium. These are flagged accordingly in the QC summary report. The ICV was within control limits for this analyte. No further corrective actions were required and no sample results were adversely affected.

Exception Report R7-03

For Metals analysis performed on 7/12/07 and 7/16/07 the matrix spikes and matrix spike duplicate recoveries were above control limits for some analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spikes and matrix spike duplicates were from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken and no sample results were adversely affected.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707030

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0707030-01	P-SB-11-8-9		07/02/07 07:55 AM	07/06/07
0707030-02	P-SB-11-11-12		07/02/07 08:00 AM	07/06/07
0707030-03	P-SB-12-7-8		07/05/07 08:00 AM	07/06/07
0707030-04	P-SB-12-9-10		07/05/07 08:10 AM	07/06/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707030

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0707030-01A	P-SB-11-8-9	07/02/07 07:55 AM	Soil	USDA 60	1:5 Water Extract	07/09/07 10:03 AM	26491
	P-SB-11-8-9	07/02/07 07:55 AM	Soil	SW9056	Anion Prep	07/09/07 02:59 PM	26496
	P-SB-11-8-9	07/02/07 07:55 AM	Soil	SW9056	Anion Prep	07/09/07 02:59 PM	26496
	P-SB-11-8-9	07/02/07 07:55 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/09/07	PH_S-07/09/07
	P-SB-11-8-9	07/02/07 07:55 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/09/07	CONDW-07/09/07
0707030-01B	P-SB-11-8-9	07/02/07 07:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-11-8-9	07/02/07 07:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-11-8-9	07/02/07 07:55 AM	Soil	D2216	Percent Moisture	07/09/07 10:04 AM	PMOIST_070709A
0707030-02A	P-SB-11-11-12	07/02/07 08:00 AM	Soil	USDA 60	1:5 Water Extract	07/09/07 10:03 AM	26491
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	SW9056	Anion Prep	07/09/07 02:59 PM	26496
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	SW9056	Anion Prep	07/09/07 02:59 PM	26496
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/09/07	PH_S-07/09/07
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/09/07	CONDW-07/09/07
0707030-02B	P-SB-11-11-12	07/02/07 08:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-11-11-12	07/02/07 08:00 AM	Soil	D2216	Percent Moisture	07/09/07 10:04 AM	PMOIST_070709A
0707030-03A	P-SB-12-7-8	07/05/07 08:00 AM	Soil	USDA 60	1:5 Water Extract	07/09/07 10:03 AM	26491
	P-SB-12-7-8	07/05/07 08:00 AM	Soil	SW9056	Anion Prep	07/09/07 02:59 PM	26496
	P-SB-12-7-8	07/05/07 08:00 AM	Soil	SW9056	Anion Prep	07/09/07 02:59 PM	26496
	P-SB-12-7-8	07/05/07 08:00 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/09/07	PH_S-07/09/07
	P-SB-12-7-8	07/05/07 08:00 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/09/07	CONDW-07/09/07
0707030-03B	P-SB-12-7-8	07/05/07 08:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-12-7-8	07/05/07 08:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-12-7-8	07/05/07 08:00 AM	Soil	D2216	Percent Moisture	07/09/07 10:04 AM	PMOIST_070709A
0707030-04A	P-SB-12-9-10	07/05/07 08:10 AM	Soil	USDA 60	1:5 Water Extract	07/09/07 10:03 AM	26491
	P-SB-12-9-10	07/05/07 08:10 AM	Soil	SW9056	Anion Prep	07/09/07 02:59 PM	26496
	P-SB-12-9-10	07/05/07 08:10 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/09/07	PH_S-07/09/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707030

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-SB-12-9-10	07/05/07 08:10 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/09/07	CONDW-07/09/07
0707030-04B	P-SB-12-9-10	07/05/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-12-9-10	07/05/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/09/07 09:01 AM	26486
	P-SB-12-9-10	07/05/07 08:10 AM	Soil	D2216	Percent Moisture	07/09/07 10:04 AM	PMOIST_070709A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707030

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0707030-01A	P-SB-11-8-9	Soil	SW9056	Anions by IC method - Soil	26496	1	07/11/07 11:01 AM	IC_070711A
	P-SB-11-8-9	Soil	SW9056	Anions by IC method - Soil	26496	10	07/11/07 01:10 PM	IC_070711A
	P-SB-11-8-9	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/09/07	1	07/09/07 11:25 AM	WC_070709A
	P-SB-11-8-9	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/09/07	1	07/09/07 01:00 PM	PH_070709A
	P-SB-11-8-9	Soil	E310.1	Soluble Alkalinity of Soil	26491	1	07/10/07 09:13 AM	TITRATOR_070710A
0707030-01B	P-SB-11-8-9	Soil	D2216	Percent Moisture	PMOIST_070709A	1	07/09/07 04:58 PM	PMOIST_070709A
	P-SB-11-8-9	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	20	07/12/07 02:49 PM	ICP-MS3_070712A
	P-SB-11-8-9	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	50	07/16/07 07:09 PM	ICP-MS3_070716A
0707030-02A	P-SB-11-11-12	Soil	SW9056	Anions by IC method - Soil	26496	1	07/11/07 11:16 AM	IC_070711A
	P-SB-11-11-12	Soil	SW9056	Anions by IC method - Soil	26496	10	07/11/07 01:26 PM	IC_070711A
	P-SB-11-11-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/09/07	1	07/09/07 11:25 AM	WC_070709A
	P-SB-11-11-12	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/09/07	1	07/09/07 01:00 PM	PH_070709A
	P-SB-11-11-12	Soil	E310.1	Soluble Alkalinity of Soil	26491	1	07/10/07 09:15 AM	TITRATOR_070710A
0707030-02B	P-SB-11-11-12	Soil	D2216	Percent Moisture	PMOIST_070709A	1	07/09/07 04:58 PM	PMOIST_070709A
	P-SB-11-11-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	5	07/12/07 12:44 PM	ICP-MS3_070712A
	P-SB-11-11-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	20	07/12/07 03:01 PM	ICP-MS3_070712A
	P-SB-11-11-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	50	07/16/07 06:29 PM	ICP-MS3_070716A
	P-SB-11-11-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	20	07/16/07 07:14 PM	ICP-MS3_070716A
0707030-03A	P-SB-12-7-8	Soil	SW9056	Anions by IC method - Soil	26496	1	07/11/07 12:19 PM	IC_070711A
	P-SB-12-7-8	Soil	SW9056	Anions by IC method - Soil	26496	10	07/11/07 02:28 PM	IC_070711A
	P-SB-12-7-8	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/09/07	1	07/09/07 11:25 AM	WC_070709A
	P-SB-12-7-8	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/09/07	1	07/09/07 01:00 PM	PH_070709A
	P-SB-12-7-8	Soil	E310.1	Soluble Alkalinity of Soil	26491	1	07/10/07 09:19 AM	TITRATOR_070710A
0707030-03B	P-SB-12-7-8	Soil	D2216	Percent Moisture	PMOIST_070709A	1	07/09/07 04:58 PM	PMOIST_070709A
	P-SB-12-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	20	07/12/07 02:53 PM	ICP-MS3_070712A
	P-SB-12-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	100	07/16/07 06:21 PM	ICP-MS3_070716A
0707030-04A	P-SB-12-9-10	Soil	SW9056	Anions by IC method - Soil	26496	2	07/11/07 12:55 PM	IC_070711A
	P-SB-12-9-10	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/09/07	1	07/09/07 11:25 AM	WC_070709A
	P-SB-12-9-10	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/09/07	1	07/09/07 01:00 PM	PH_070709A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707030

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-SB-12-9-10	Soil	E310.1	Soluble Alkalinity of Soil	26491	1	07/10/07 09:27 AM	TITRATOR_070710A
0707030-04B	P-SB-12-9-10	Soil	D2216	Percent Moisture	PMOIST_070709A	1	07/09/07 04:58 PM	PMOIST_070709A
	P-SB-12-9-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	20	07/12/07 02:57 PM	ICP-MS3_070712A
	P-SB-12-9-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26486	50	07/16/07 06:25 PM	ICP-MS3_070716A

DHL Analytical

Date: 07/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-11-8-9
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707030-01
Project No:	128161	Collection Date:	07/02/07 07:55 AM
Lab Order:	0707030	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	58.4	2.16	8.62		mg/Kg-dry	20	07/12/07 02:49 PM
Calcium	3920	53.9	53.9		mg/Kg-dry	20	07/12/07 02:49 PM
Iron	12700	135	135		mg/Kg-dry	50	07/16/07 07:09 PM
Magnesium	4460	53.9	53.9		mg/Kg-dry	20	07/12/07 02:49 PM
Potassium	3740	53.9	53.9		mg/Kg-dry	20	07/12/07 02:49 PM
Sodium	1710	53.9	53.9		mg/Kg-dry	20	07/12/07 02:49 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	87.4	59.0	59.0		mg/kg-dry	1	07/10/07 09:13 AM
Alkalinity, Carbonate (As CaCO3)	ND	59.0	59.0		mg/kg-dry	1	07/10/07 09:13 AM
Alkalinity, Hydroxide (As CaCO3)	ND	59.0	59.0		mg/kg-dry	1	07/10/07 09:13 AM
Alkalinity, Total (As CaCO3)	87.4	59.0	59.0		mg/kg-dry	1	07/10/07 09:13 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	5.83	5.83		mg/Kg-dry	1	07/11/07 11:01 AM
Chloride	1620	58.3	58.3		mg/Kg-dry	10	07/11/07 01:10 PM
Nitrate-N	ND	5.83	5.83		mg/Kg-dry	1	07/11/07 11:01 AM
Sulfate	246	11.7	11.7		mg/Kg-dry	1	07/11/07 11:01 AM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.53	0	0		pH Units	1	07/09/07 01:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	15.6	0	0	N	WT%	1	07/09/07 04:58 PM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	3280	10.0	10.0		µmhos/cm	1	07/09/07 11:25 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-11-11-12
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707030-02
Project No:	128161	Collection Date:	07/02/07 08:00 AM
Lab Order:	0707030	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	37.3	0.474	1.89		mg/Kg-dry	5	07/12/07 12:44 PM
Calcium	2980	47.4	47.4		mg/Kg-dry	20	07/12/07 03:01 PM
Iron	10600	118	118		mg/Kg-dry	50	07/16/07 06:29 PM
Magnesium	3640	47.4	47.4		mg/Kg-dry	20	07/12/07 03:01 PM
Potassium	3100	47.4	47.4		mg/Kg-dry	20	07/12/07 03:01 PM
Sodium	1250	11.8	11.8		mg/Kg-dry	5	07/12/07 12:44 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	ND	55.2	55.2		mg/kg-dry	1	07/10/07 09:15 AM
Alkalinity, Carbonate (As CaCO3)	ND	55.2	55.2		mg/kg-dry	1	07/10/07 09:15 AM
Alkalinity, Hydroxide (As CaCO3)	ND	55.2	55.2		mg/kg-dry	1	07/10/07 09:15 AM
Alkalinity, Total (As CaCO3)	ND	55.2	55.2		mg/kg-dry	1	07/10/07 09:15 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	5.53	5.53		mg/Kg-dry	1	07/11/07 11:16 AM
Chloride	1470	55.3	55.3		mg/Kg-dry	10	07/11/07 01:26 PM
Nitrate-N	ND	5.53	5.53		mg/Kg-dry	1	07/11/07 11:16 AM
Sulfate	199	11.1	11.1		mg/Kg-dry	1	07/11/07 11:16 AM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.59	0	0		pH Units	1	07/09/07 01:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	9.76	0	0	N	WT%	1	07/09/07 04:58 PM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	3020	10.0	10.0		µmhos/cm	1	07/09/07 11:25 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-12-7-8
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707030-03
Project No:	128161	Collection Date:	07/05/07 08:00 AM
Lab Order:	0707030	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	713	2.45	9.80		mg/Kg-dry	20	07/12/07 02:53 PM
Calcium	50600	306	306		mg/Kg-dry	100	07/16/07 06:21 PM
Iron	23100	306	306		mg/Kg-dry	100	07/16/07 06:21 PM
Magnesium	9550	61.2	61.2		mg/Kg-dry	20	07/12/07 02:53 PM
Potassium	8700	61.2	61.2		mg/Kg-dry	20	07/12/07 02:53 PM
Sodium	2650	61.2	61.2		mg/Kg-dry	20	07/12/07 02:53 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	225	68.0	68.0		mg/kg-dry	1	07/10/07 09:19 AM
Alkalinity, Carbonate (As CaCO3)	ND	68.0	68.0		mg/kg-dry	1	07/10/07 09:19 AM
Alkalinity, Hydroxide (As CaCO3)	ND	68.0	68.0		mg/kg-dry	1	07/10/07 09:19 AM
Alkalinity, Total (As CaCO3)	225	68.0	68.0		mg/kg-dry	1	07/10/07 09:19 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	6.68	6.68		mg/Kg-dry	1	07/11/07 12:19 PM
Chloride	2260	66.8	66.8		mg/Kg-dry	10	07/11/07 02:28 PM
Nitrate-N	ND	6.68	6.68		mg/Kg-dry	1	07/11/07 12:19 PM
Sulfate	185	13.4	13.4		mg/Kg-dry	1	07/11/07 12:19 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.04	0	0		pH Units	1	07/09/07 01:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	27.1	0	0	N	WT%	1	07/09/07 04:58 PM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	3470	10.0	10.0		µmhos/cm	1	07/09/07 11:25 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-12-9-10
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707030-04
Project No:	128161	Collection Date:	07/05/07 08:10 AM
Lab Order:	0707030	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	53.9	2.43	9.73		mg/Kg-dry	20	07/12/07 02:57 PM
Calcium	22600	152	152		mg/Kg-dry	50	07/16/07 06:25 PM
Iron	21000	152	152		mg/Kg-dry	50	07/16/07 06:25 PM
Magnesium	7380	60.8	60.8		mg/Kg-dry	20	07/12/07 02:57 PM
Potassium	6610	60.8	60.8		mg/Kg-dry	20	07/12/07 02:57 PM
Sodium	2790	60.8	60.8		mg/Kg-dry	20	07/12/07 02:57 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	497	68.1	68.1		mg/kg-dry	1	07/10/07 09:27 AM
Alkalinity, Carbonate (As CaCO3)	369	68.1	68.1		mg/kg-dry	1	07/10/07 09:27 AM
Alkalinity, Hydroxide (As CaCO3)	ND	68.1	68.1		mg/kg-dry	1	07/10/07 09:27 AM
Alkalinity, Total (As CaCO3)	866	68.1	68.1		mg/kg-dry	1	07/10/07 09:27 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	13.7	13.7		mg/Kg-dry	2	07/11/07 12:55 PM
Chloride	714	13.7	13.7		mg/Kg-dry	2	07/11/07 12:55 PM
Nitrate-N	ND	13.7	13.7		mg/Kg-dry	2	07/11/07 12:55 PM
Sulfate	408	27.3	27.3		mg/Kg-dry	2	07/11/07 12:55 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.63	0	0		pH Units	1	07/09/07 01:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	27.2	0	0	N	WT%	1	07/09/07 04:58 PM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	3470	10.0	10.0		µmhos/cm	1	07/09/07 11:25 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070712A

Sample ID:	MB-26486	Batch ID:	26486	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 12:26 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	2.00								
Iron	ND	12.5								
Magnesium	ND	12.5								
Potassium	ND	12.5								
Sodium	ND	12.5								

Sample ID:	LCS-26486	Batch ID:	26486	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 12:30 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	51.8	2.00	50.00	0	104	80	120			
Iron	239	12.5	250.0	0	95.4	80	120			
Magnesium	244	12.5	250.0	0	97.6	80	120			
Potassium	244	12.5	250.0	0	97.4	80	120			
Sodium	241	12.5	250.0	0	96.4	80	120			

Sample ID:	LCSD-26486	Batch ID:	26486	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCSD	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 12:33 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	49.0	2.00	50.00	0	98.0	80	120	5.55	25	
Iron	242	12.5	250.0	0	96.8	80	120	1.37	25	
Magnesium	252	12.5	250.0	0	101	80	120	3.17	25	
Potassium	253	12.5	250.0	0	101	80	120	3.83	25	
Sodium	247	12.5	250.0	0	99.0	80	120	2.61	25	

Sample ID:	0707030-02B SD	Batch ID:	26486	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 12:48 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	35.8	9.47	0	37.32				4.21	10	
Sodium	1380	59.2	0	1252				9.51	10	

Sample ID:	0707030-02BMS	Batch ID:	26486	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 12:53 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	102	2.05	51.30	37.32	125	80	120			S
Sodium	1930	12.8	256.5	1252	263	80	120			S

Sample ID:	0707030-02BMSD	Batch ID:	26486	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 12:56 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	109	2.03	50.83	37.32	141	80	120	7.09	25	S
Sodium	2010	12.7	254.2	1252	297	80	120	4.00	25	S

Sample ID:	0707030-02B PDS	Batch ID:	26486	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	PDS	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 01:00 PM	Prep Date:	07/09/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070712A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	85.1	1.89	47.36	37.32	101	75	125			
Sodium	2210	11.8	1184	1252	80.8	75	125			

Qualifiers: B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit

R RPD outside accepted control limits
 RL Reporting Limit
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070712A

Sample ID:	ICV1-070712	Batch ID:	R32588	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 11:59 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0987	0.0100	0.100	0	98.7	90	110			
Iron	2.45	0.100	2.50	0	97.8	90	110			
Magnesium	2.51	0.100	2.50	0	100	90	110			
Potassium	2.50	0.100	2.50	0	100	90	110			
Sodium	2.44	0.100	2.50	0	97.4	90	110			

Sample ID:	CCV1-070712	Batch ID:	R32588	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 01:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.196	0.0100	0.200	0	97.9	90	110			
Iron	4.48	0.100	5.00	0	89.7	90	110			
Magnesium	4.63	0.100	5.00	0	92.7	90	110			
Potassium	4.83	0.100	5.00	0	96.7	90	110			
Sodium	4.52	0.100	5.00	0	90.4	90	110			

Sample ID:	ICV2-070712	Batch ID:	R32588	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 02:30 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0995	0.0100	0.100	0	99.5	90	110			
Calcium	2.54	0.100	2.50	0	102	90	110			
Magnesium	2.56	0.100	2.50	0	102	90	110			
Potassium	2.56	0.100	2.50	0	102	90	110			
Sodium	2.51	0.100	2.50	0	100	90	110			

Sample ID:	CCV2-070712	Batch ID:	R32588	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070712A	Analysis Date:	07/12/07 03:24 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.186	0.0100	0.200	0	93.0	90	110			
Calcium	4.55	0.100	5.00	0	91.0	90	110			
Magnesium	4.96	0.100	5.00	0	99.2	90	110			
Potassium	4.89	0.100	5.00	0	97.8	90	110			
Sodium	4.87	0.100	5.00	0	97.4	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070716A

Sample ID:	Batch ID:	TestNo:	Units:							
SampType:	Run ID:	Analysis Date:	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
MB-26486	26486	SW6020	mg/Kg							
MBLK	ICP-MS3_070716A	07/16/07 06:10 PM	07/09/07							
Calcium	76.2	12.5								
LCS-26486	26486	SW6020	mg/Kg							
LCS	ICP-MS3_070716A	07/16/07 06:14 PM	07/09/07							
Calcium	330	12.5	250.0	0	132	80	120			S
LCSD-26486	26486	SW6020	mg/Kg							
LCSD	ICP-MS3_070716A	07/16/07 06:17 PM	07/09/07							
Calcium	323	12.5	250.0	0	129	80	120	1.99	25	S
0707030-02B SD	26486	SW6020	mg/Kg-dry							
SD	ICP-MS3_070716A	07/16/07 06:33 PM	07/09/07							
Iron	11000	592	0	10570				3.58	10	
0707030-02BMS	26486	SW6020	mg/Kg-dry							
MS	ICP-MS3_070716A	07/16/07 06:37 PM	07/09/07							
Iron	15100	128	256.5	10570	1750	80	120			S
0707030-02BMSD	26486	SW6020	mg/Kg-dry							
MSD	ICP-MS3_070716A	07/16/07 06:41 PM	07/09/07							
Iron	15900	127	254.2	10570	2090	80	120	5.35	25	S
0707030-02B PDS	26486	SW6020	mg/Kg-dry							
PDS	ICP-MS3_070716A	07/16/07 06:44 PM	07/09/07							
Iron	24000	118	11840	10570	113	75	125			
0707030-02B SD	26486	SW6020	mg/Kg-dry							
SD	ICP-MS3_070716A	07/16/07 07:18 PM	07/09/07							
Calcium	3580	237	0	3356				6.59	10	
Magnesium	4080	237	0	3751				8.49	10	
Potassium	3830	237	0	3482				9.55	10	
0707030-02BMS	26486	SW6020	mg/Kg-dry							
MS	ICP-MS3_070716A	07/16/07 07:22 PM	07/09/07							
Calcium	4510	51.3	256.5	3356	448	80	120			S
Magnesium	5230	51.3	256.5	3751	576	80	120			S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070716A

Potassium 4970 51.3 256.5 3482 582 80 120 S

Sample ID: 0707030-02BMSD Batch ID: 26486 TestNo: SW6020 Units: mg/Kg-dry
 SampType: MSD Run ID: ICP-MS3_070716A Analysis Date: 07/16/07 07:26 PM Prep Date: 07/09/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Calcium 3840 50.8 254.2 3356 193 80 120 15.8 25 S
 Magnesium 5130 50.8 254.2 3751 543 80 120 1.91 25 S
 Potassium 4840 50.8 254.2 3482 533 80 120 2.82 25 S

Sample ID: 0707030-02B PDS Batch ID: 26486 TestNo: SW6020 Units: mg/Kg-dry
 SampType: PDS Run ID: ICP-MS3_070716A Analysis Date: 07/16/07 07:30 PM Prep Date: 07/09/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Calcium 7080 47.4 4736 3356 78.7 75 125
 Magnesium 7800 47.4 4736 3751 85.5 75 125
 Potassium 7690 47.4 4736 3482 88.8 75 125

Qualifiers: B Analyte detected in the associated Method Blank R RPD outside accepted control limits
 DF Dilution Factor RL Reporting Limit
 J Analyte detected between MDL and RL S Spike Recovery outside control limits
 MDL Method Detection Limit N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: ICP-MS3_070716A

Sample ID:	ICV1-070716	Batch ID:	R32616	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070716A	Analysis Date:	07/16/07 03:56 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.48	0.100	2.50	0	99.3	90	110			
Iron	2.48	0.100	2.50	0	99.4	90	110			
Magnesium	2.46	0.100	2.50	0	98.2	90	110			
Potassium	2.51	0.100	2.50	0	101	90	110			

Sample ID:	CCV1-070716	Batch ID:	R32616	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070716A	Analysis Date:	07/16/07 04:50 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.80	0.100	5.00	0	95.9	90	110			
Iron	5.06	0.100	5.00	0	101	90	110			

Sample ID:	CCV2-070716	Batch ID:	R32616	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070716A	Analysis Date:	07/16/07 06:52 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.13	0.100	5.00	0	103	90	110			
Iron	4.77	0.100	5.00	0	95.5	90	110			
Magnesium	4.79	0.100	5.00	0	95.9	90	110			
Potassium	5.13	0.100	5.00	0	103	90	110			

Sample ID:	CCV3-070716	Batch ID:	R32616	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070716A	Analysis Date:	07/16/07 07:41 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.08	0.100	5.00	0	102	90	110			
Iron	4.65	0.100	5.00	0	93.0	90	110			
Magnesium	4.71	0.100	5.00	0	94.3	90	110			
Potassium	4.95	0.100	5.00	0	99.0	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: IC_070711A

Sample ID:	MB-26496	Batch ID:	26496	TestNo:	SW9056	Units:	mg/Kg			
SampType:	MBLK	Run ID:	IC_070711A	Analysis Date:	07/11/07 09:58 AM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	5.00								
Chloride	ND	5.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID:	LCS-26496	Batch ID:	26496	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC_070711A	Analysis Date:	07/11/07 10:13 AM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	98.0	5.00	100.0	0	98.0	80	120			
Chloride	47.5	5.00	50.00	0	95.1	80	120			
Nitrate-N	26.2	5.00	25.00	0	105	80	120			
Sulfate	137	10.0	150.0	0	91.5	80	120			

Sample ID:	LCS-26496	Batch ID:	26496	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC_070711A	Analysis Date:	07/11/07 10:29 AM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	97.4	5.00	100.0	0	97.4	80	120	0.625	20	
Chloride	47.8	5.00	50.00	0	95.7	80	120	0.672	20	
Nitrate-N	25.8	5.00	25.00	0	103	80	120	1.46	20	
Sulfate	139	10.0	150.0	0	92.7	80	120	1.25	20	

Sample ID:	0707030-02A DUP	Batch ID:	26496	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	DUP	Run ID:	IC_070711A	Analysis Date:	07/11/07 11:32 AM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	0	5.53	0	0				0	25	
Nitrate-N	0	5.53	0	0				0	25	
Sulfate	205	11.1	0	198.7				2.90	25	

Sample ID:	0707030-02AMS	Batch ID:	26496	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IC_070711A	Analysis Date:	07/11/07 11:48 AM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	95.8	5.53	110.6	0	86.6	80	120			
Nitrate-N	25.7	5.53	27.65	0	92.8	80	120			
Sulfate	280	11.1	165.9	119.2	96.9	80	120			

Sample ID:	0707030-02AMSD	Batch ID:	26496	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IC_070711A	Analysis Date:	07/11/07 12:03 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	96.5	5.53	110.6	0	87.3	80	120	0.712	20	
Nitrate-N	25.7	5.53	27.65	0	93.1	80	120	0.310	20	
Sulfate	280	11.1	165.9	119.2	97.0	80	120	0.0863	20	

Sample ID:	0707030-02AMS	Batch ID:	26496	TestNo:	SW9056	Units:	mg/Kg-dry
SampType:	MS	Run ID:	IC_070711A	Analysis Date:	07/11/07 01:42 PM	Prep Date:	07/09/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: IC_070711A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	1400	55.3	553.0	879.0	94.6	80	120			

Sample ID: 0707030-02AMSD Batch ID: 26496 TestNo: SW9056 Units: mg/Kg-dry
 SampType: MSD Run ID: IC_070711A Analysis Date: 07/11/07 01:58 PM Prep Date: 07/09/07

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	1410	55.3	553.0	879.0	95.8	80	120	0.445	20	

Sample ID: 0707030-02A DUP Batch ID: 26496 TestNo: SW9056 Units: mg/Kg-dry
 SampType: DUP Run ID: IC_070711A Analysis Date: 07/11/07 02:13 PM Prep Date: 07/09/07

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	1810	55.3	0	1465				20.8	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: IC_070711A

Sample ID:	ICV-070711	Batch ID:	R32561	TestNo:	SW9056	Units:	mg/Kg			
SampType:	ICV	Run ID:	IC_070711A	Analysis Date:	07/11/07 09:32 AM	Prep Date:	07/11/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	51.0	5.00	50.00	0	102	90	110			
Chloride	24.7	5.00	25.00	0	98.7	90	110			
Nitrate-N	13.4	5.00	12.50	0	107	90	110			
Sulfate	72.2	10.0	75.00	0	96.3	90	110			

Sample ID:	CCV1-070711	Batch ID:	R32561	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC_070711A	Analysis Date:	07/11/07 12:35 PM	Prep Date:	07/11/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.9	5.00	20.00	0	105	90	110			
Chloride	9.68	5.00	10.00	0	96.8	90	110			
Nitrate-N	4.99	5.00	5.000	0	99.7	90	110			
Sulfate	28.2	10.0	30.00	0	94.2	90	110			

Sample ID:	CCV2-070711	Batch ID:	r32561	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC_070711A	Analysis Date:	07/11/07 02:49 PM	Prep Date:	07/11/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.3	5.00	20.00	0	96.3	90	110			
Chloride	9.60	5.00	10.00	0	96.0	90	110			
Nitrate-N	4.77	5.00	5.000	0	95.3	90	110			
Sulfate	28.0	10.0	30.00	0	93.3	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: PH_070709A

Sample ID:	ICV	Batch ID:	PH_S-07/09/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	ICV	Run ID:	PH_070709A	Analysis Date:	07/09/07 01:00 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	10.0	0	10.00	0	100	99	101			
Sample ID:	0707030-02A DUP	Batch ID:	PH_S-07/09/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070709A	Analysis Date:	07/09/07 01:00 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.60	0	0	7.588				0.158	15	
Sample ID:	CCV-070709	Batch ID:	PH_S-07/09/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070709A	Analysis Date:	07/09/07 01:00 PM	Prep Date:	07/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.06	0	7.000	0	101	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT:	TRC Environmental Corp.	ANALYTICAL QC SUMMARY REPORT
Work Order:	0707030	
Project:	RRC-Petronila Creek Groundwater Investigation	RunID: PMOIST_070709A

Sample ID:	0707030-02B DUP	Batch ID:	PMOIST_070709A	TestNo:	D2216	Units:	WT%				
SampType:	DUP	Run ID:	PMOIST_070709A	Analysis Date:	07/09/07 04:58 PM	Prep Date:	07/09/07				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture		7.80	0	0	9.758				22.3	30	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070710A

Sample ID: MB-26491	Batch ID: 26491	TestNo: E310.1	Units: mg/kg
SampType: MBLK	Run ID: TITRATOR_070710A	Analysis Date: 07/10/07 09:04 AM	Prep Date: 07/09/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	ND	50.0	
Alkalinity, Carbonate (As CaCO3)	ND	50.0	
Alkalinity, Hydroxide (As CaCO3)	ND	50.0	
Alkalinity, Total (As CaCO3)	ND	50.0	

Sample ID: LCS-26491	Batch ID: 26491	TestNo: E310.1	Units: mg/kg
SampType: LCS	Run ID: TITRATOR_070710A	Analysis Date: 07/10/07 09:08 AM	Prep Date: 07/09/07
Analyte	Result	RL	SPK value
Alkalinity, Total (As CaCO3)	268	50.0	250.0

Sample ID: 0707030-02A DUP	Batch ID: 26491	TestNo: E310.1	Units: mg/kg-dry
SampType: DUP	Run ID: TITRATOR_070710A	Analysis Date: 07/10/07 09:17 AM	Prep Date: 07/09/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	0	55.1	0
Alkalinity, Carbonate (As CaCO3)	0	55.1	0
Alkalinity, Hydroxide (As CaCO3)	0	55.1	0
Alkalinity, Total (As CaCO3)	0	55.1	0

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070710A

Sample ID: ICV-070710	Batch ID: R32542	TestNo: E310.1	Units: mg/L							
SampType: ICV	Run ID: TITRATOR_070710A	Analysis Date: 07/10/07 09:02 AM	Prep Date: 07/10/07							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	10.3	50.0	0							
Alkalinity, Carbonate (As CaCO3)	91.0	50.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0							
Alkalinity, Total (As CaCO3)	101	50.0	100.0	0	101	90	110			

Sample ID: CCV-070710	Batch ID: R32542	TestNo: E310.1	Units: mg/kg							
SampType: CCV	Run ID: TITRATOR_070710A	Analysis Date: 07/10/07 09:33 AM	Prep Date: 07/10/07							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	10.8	50.0	0							
Alkalinity, Carbonate (As CaCO3)	91.2	50.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0							
Alkalinity, Total (As CaCO3)	102	50.0	100.0	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation RunID: WC_070709A

Sample ID: ICV-070709 Batch ID: CONDW-07/09/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: ICV Run ID: WC_070709A Analysis Date: 07/09/07 11:25 AM Prep Date: 07/09/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12900 10.0 12880 0 99.9 90 110

Sample ID: MBLK-070709 Batch ID: CONDW-07/09/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: MBLK Run ID: WC_070709A Analysis Date: 07/09/07 11:25 AM Prep Date: 07/09/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance ND 10.0

Sample ID: LCS-070709 Batch ID: CONDW-07/09/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: LCS Run ID: WC_070709A Analysis Date: 07/09/07 11:25 AM Prep Date: 07/09/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 1350 10.0 1413 0 95.4 91 107

Sample ID: 0707030-02A DUP Batch ID: CONDW-07/09/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: DUP Run ID: WC_070709A Analysis Date: 07/09/07 11:25 AM Prep Date: 07/09/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 3090 10.0 0 3020 2.29 25

Sample ID: CCV-070709 Batch ID: CONDW-07/09/07 TestNo: Agron 10-2.3 Units: µmhos/cm
 SampType: CCV Run ID: WC_070709A Analysis Date: 07/09/07 11:25 AM Prep Date: 07/09/07
 Analyte Result RL SPK value Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
 Specific Conductance 12800 10.0 12880 0 99.5 90 110

Qualifiers: B Analyte detected in the associated Method Blank R RPD outside accepted control limits
 DF Dilution Factor RL Reporting Limit
 J Analyte detected between MDL and RL S Spike Recovery outside control limits
 MDL Method Detection Limit N Parameter not NELAC certified
 ND Not Detected at the Method Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0707030
 Project: RRC-Petronila Creek Groundwater Investigation

MQL SUMMARY REPORT

TestNo: E310.1 Analyte	MDL mg/kg	MQL mg/kg
Alkalinity, Bicarbonate (As CaCO3)	50.0	50.0
Alkalinity, Carbonate (As CaCO3)	50.0	50.0
Alkalinity, Hydroxide (As CaCO3)	50.0	50.0
Alkalinity, Total (As CaCO3)	50.0	50.0
TestNo: SW9056 Analyte	MDL mg/Kg	MQL mg/Kg
Bromide	5.00	5.00
Chloride	5.00	5.00
Nitrate-N	5.00	5.00
Sulfate	10.0	10.0
TestNo: SW6020 Analyte	MDL mg/Kg	MQL mg/Kg
Barium	0.500	2.00
Calcium	12.5	12.5
Iron	12.5	12.5
Magnesium	12.5	12.5
Potassium	12.5	12.5
Sodium	12.5	12.5
TestNo: Agron 10-2.3 Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0

Qualifiers:

MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



July 26, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0707084

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek Groundwater Investigation

Dear Steve Miller:

DHL Analytical received 8 sample(s) on 7/14/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-06-TX



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Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

7-26-7
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: RRC-Petronila Creek Groundwater Date: 7/26/07
 Reviewer Name: Laura Flowers Investigation Laboratory Work Order: 0707084
 Prep Batch Number(s): See Prep Dates Report Run Batch: See Analytical Dates Report

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓	✓			R1-01
		2) Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?			✓		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			✓		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?		✓			R5-04
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?		✓			R7-04
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	7201/1 ✓	✓			R8-03
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		✓			R10-01
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: <i>RRC-Petronila Creek Groundwater</i>		Date: <i>7/26/07</i>					
Reviewer Name: <i>Laura Flowers</i>		<i>Investigation</i>	Laboratory Work Order: <i>0707084</i>				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			<i>S9-01</i>
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 7/14/2007

Work Order Number 0707084

Received by: DEW

Checklist completed by: [Signature] 7/16/07
Signature Date

Reviewed by: [Initials] 7/16/07
Initials Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? No Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Sample-02 [P-SB-13-10-12] - one of the two jars arrived broken

Corrective Action all analyses will be run on remaining jar

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707084

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E310.1 - Alkalinity
Method SW9056/E300 - Anions Analysis
Method AGRON 10-2.3 - Electrical Conductance in Soil
Method SW9045C - pH of Solid (Corrosivity)
Method D2216 - Percent Moisture (Parameter Not NELAC Certified)

Exception Report R1-01

Samples were received and log-in performed on 7/14/07. A total of 8 samples were received. One of the two jars for sample P-SB-13-10-12 arrived broken. The corrective action taken was to perform all the analyses using the one intact sample jar.

Exception Report R5-04

For Metals analysis, Calcium was detected above the reporting limit in the method blank (MB-26585). The Calcium concentration in all the samples was more than 10x the concentration in the method blank and the Equipment Blank was non-detect. No further corrective actions were taken and no sample results were adversely affected.

Exception Report R7-03 and R7-04

For Metals analysis, the recoveries of the matrix spikes (0707066-01D MS and 0707085-20B MS) and matrix spike duplicates (0707066-01D MSD and 0707085-20B MSD) were out of control limits for some analytes. In addition, the RPD of the matrix spike duplicate (0707085-20B MSD) was above control limits for Calcium. These are flagged accordingly in the QC summary report. The reference samples selected for the matrix spikes and matrix spike duplicates were not from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Anions analysis, the recoveries of the matrix spike (0707095-03AMS) and matrix spike duplicate (0707095-03AMSD) were below control limits for Nitrate-N. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R8-03

For Alkalinity analysis, the RPD of the sample duplicate (0707084-06A DUP) was above control limits due to matrix interference. This is flagged accordingly in the QC summary report. The other sample duplicate analyzed (0707084-01A DUP) was within control limits. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707084

CASE NARRATIVE

For Anions analysis, the RPD of the sample duplicate (0707095-03A DUP) was above control limits for Bromide. This is flagged accordingly in the QC summary report. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis, sample P-SB-17-11-12 was analyzed at a 2x dilution due to the silt present in the sample.

Exception Report S9-01

For Metals analysis, the RPD of the serial dilution (0707085-20B SD) was above control limits for Calcium and Sodium. These are flagged accordingly in the QC summary report. The post digestion spike was within control limits for this analyte. No further corrective actions were taken.

For Metals analysis, the recovery of the post digestion spike (0707085-20B PDS) was below control limits for Iron. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707084

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0707084-01	P-SB-13-7-8		07/12/07 08:35 AM	07/14/07
0707084-02	P-SB-13-10-12		07/12/07 08:45 AM	07/14/07
0707084-03	P-SB-16-10-11		07/12/07 02:40 PM	07/14/07
0707084-04	P-SB-16-12-13		07/12/07 02:50 PM	07/14/07
0707084-05	P-SB-17-8-10		07/13/07 08:10 AM	07/14/07
0707084-06	P-SB-17-11-12		07/13/07 08:20 AM	07/14/07
0707084-07	P-EB-S-07-13-01-1		07/13/07 12:30 PM	07/14/07
0707084-08	P-SB-16-12-13-D		07/12/07 02:50 PM	07/14/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707084

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0707084-01A	P-SB-13-7-8	07/12/07 08:35 AM	Soil	USDA 60	1:5 Water Extract	07/17/07 10:04 AM	26560
	P-SB-13-7-8	07/12/07 08:35 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-13-7-8	07/12/07 08:35 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-13-7-8	07/12/07 08:35 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/17/07	PH_S-07/17/07
	P-SB-13-7-8	07/12/07 08:35 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/17/07	CONDW-07/17/07
0707084-01B	P-SB-13-7-8	07/12/07 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-13-7-8	07/12/07 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-13-7-8	07/12/07 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-13-7-8	07/12/07 08:35 AM	Soil	D2216	Percent Moisture	07/16/07 04:00 PM	PMOIST_070717A
0707084-02A	P-SB-13-10-12	07/12/07 08:45 AM	Soil	USDA 60	1:5 Water Extract	07/17/07 10:04 AM	26560
	P-SB-13-10-12	07/12/07 08:45 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-13-10-12	07/12/07 08:45 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-13-10-12	07/12/07 08:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-13-10-12	07/12/07 08:45 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-13-10-12	07/12/07 08:45 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/17/07	PH_S-07/17/07
	P-SB-13-10-12	07/12/07 08:45 AM	Soil	D2216	Percent Moisture	07/16/07 04:00 PM	PMOIST_070717A
0707084-03A	P-SB-16-10-11	07/12/07 02:40 PM	Soil	USDA 60	1:5 Water Extract	07/17/07 10:04 AM	26560
	P-SB-16-10-11	07/12/07 02:40 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-16-10-11	07/12/07 02:40 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-16-10-11	07/12/07 02:40 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/17/07	PH_S-07/17/07
	P-SB-16-10-11	07/12/07 02:40 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/17/07	CONDW-07/17/07
	0707084-03B	P-SB-16-10-11	07/12/07 02:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM
P-SB-16-10-11		07/12/07 02:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
P-SB-16-10-11		07/12/07 02:40 PM	Soil	D2216	Percent Moisture	07/16/07 04:00 PM	PMOIST_070717A
0707084-04A	P-SB-16-12-13	07/12/07 02:50 PM	Soil	USDA 60	1:5 Water Extract	07/17/07 10:04 AM	26560
	P-SB-16-12-13	07/12/07 02:50 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-16-12-13	07/12/07 02:50 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-16-12-13	07/12/07 02:50 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/17/07	PH_S-07/17/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707084

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-SB-16-12-13	07/12/07 02:50 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/17/07	CONDW-07/17/07
0707084-04B	P-SB-16-12-13	07/12/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-16-12-13	07/12/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-16-12-13	07/12/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-16-12-13	07/12/07 02:50 PM	Soil	D2216	Percent Moisture	07/16/07 04:00 PM	PMOIST_070717A
0707084-05A	P-SB-17-8-10	07/13/07 08:10 AM	Soil	USDA 60	1:5 Water Extract	07/17/07 10:04 AM	26560
	P-SB-17-8-10	07/13/07 08:10 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-17-8-10	07/13/07 08:10 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-17-8-10	07/13/07 08:10 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/17/07	PH_S-07/17/07
	P-SB-17-8-10	07/13/07 08:10 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/17/07	CONDW-07/17/07
0707084-05B	P-SB-17-8-10	07/13/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-17-8-10	07/13/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-17-8-10	07/13/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-17-8-10	07/13/07 08:10 AM	Soil	D2216	Percent Moisture	07/20/07 04:35 PM	PMOIST_070723A
0707084-06A	P-SB-17-11-12	07/13/07 08:20 AM	Soil	USDA 60	1:5 Water Extract	07/17/07 10:04 AM	26560
	P-SB-17-11-12	07/13/07 08:20 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-17-11-12	07/13/07 08:20 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/17/07	PH_S-07/17/07
	P-SB-17-11-12	07/13/07 08:20 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/17/07	CONDW-07/17/07
0707084-06B	P-SB-17-11-12	07/13/07 08:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-17-11-12	07/13/07 08:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-17-11-12	07/13/07 08:20 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-17-11-12	07/13/07 08:20 AM	Soil	D2216	Percent Moisture	07/20/07 04:35 PM	PMOIST_070723A
0707084-07A	P-EB-S-07-13-01-1	07/13/07 12:30 PM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	07/16/07 09:30 AM	26545
0707084-07B	P-EB-S-07-13-01-1	07/13/07 12:30 PM	Equipment Blank	E310.1	Alkalinity	07/17/07 01:17 PM	R32626
0707084-07C	P-EB-S-07-13-01-1	07/13/07 12:30 PM	Equipment Blank	E300	Anions by IC method - Water	07/16/07	R32610
0707084-08A	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	USDA 60	1:5 Water Extract	07/17/07 10:04 AM	26560
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/17/07	PH_S-07/17/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707084

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/17/07	CONDW-07/17/07
0707084-08B	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:36 PM	26583
	P-SB-16-12-13-D	07/12/07 02:50 PM	Soil	D2216	Percent Moisture	07/16/07 04:00 PM	PMOIST_070717A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707084

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0707084-01A	P-SB-13-7-8	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 10:56 AM	IC2_070720A
	P-SB-13-7-8	Soil	SW9056	Anions by IC method - Soil	26582	10	07/20/07 12:09 PM	IC2_070720A
	P-SB-13-7-8	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/17/07	1	07/17/07 11:20 AM	WC_070717A
	P-SB-13-7-8	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/17/07	1	07/17/07 02:00 PM	PH_070717A
	P-SB-13-7-8	Soil	E310.1	Soluble Alkalinity of Soil	26560	1	07/18/07 09:04 AM	TITRATOR_070718A
0707084-01B	P-SB-13-7-8	Soil	D2216	Percent Moisture	PMOIST_070717A	1	07/17/07 11:30 AM	PMOIST_070717A
	P-SB-13-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	500	07/23/07 04:52 PM	ICP-MS_070723B
	P-SB-13-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/23/07 04:56 PM	ICP-MS_070723B
	P-SB-13-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/20/07 06:32 PM	ICP-MS3_070720A
0707084-02A	P-SB-13-10-12	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 11:11 AM	IC2_070720A
	P-SB-13-10-12	Soil	SW9056	Anions by IC method - Soil	26582	10	07/20/07 12:24 PM	IC2_070720A
	P-SB-13-10-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/17/07	1	07/17/07 11:20 AM	WC_070717A
	P-SB-13-10-12	Soil	D2216	Percent Moisture	PMOIST_070717A	1	07/17/07 11:30 AM	PMOIST_070717A
	P-SB-13-10-12	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/17/07	1	07/17/07 02:00 PM	PH_070717A
	P-SB-13-10-12	Soil	E310.1	Soluble Alkalinity of Soil	26560	1	07/18/07 09:05 AM	TITRATOR_070718A
	P-SB-13-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/23/07 05:01 PM	ICP-MS_070723B
	P-SB-13-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/20/07 06:36 PM	ICP-MS3_070720A
0707084-03A	P-SB-16-10-11	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 11:25 AM	IC2_070720A
	P-SB-16-10-11	Soil	SW9056	Anions by IC method - Soil	26582	10	07/20/07 12:56 PM	IC2_070720A
	P-SB-16-10-11	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/17/07	1	07/17/07 11:20 AM	WC_070717A
	P-SB-16-10-11	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/17/07	1	07/17/07 02:00 PM	PH_070717A
	P-SB-16-10-11	Soil	E310.1	Soluble Alkalinity of Soil	26560	1	07/18/07 09:07 AM	TITRATOR_070718A
0707084-03B	P-SB-16-10-11	Soil	D2216	Percent Moisture	PMOIST_070717A	1	07/17/07 11:30 AM	PMOIST_070717A
	P-SB-16-10-11	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/23/07 05:05 PM	ICP-MS_070723B
	P-SB-16-10-11	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/20/07 06:39 PM	ICP-MS3_070720A
0707084-04A	P-SB-16-12-13	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 11:40 AM	IC2_070720A
	P-SB-16-12-13	Soil	SW9056	Anions by IC method - Soil	26582	10	07/20/07 01:11 PM	IC2_070720A
	P-SB-16-12-13	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/17/07	1	07/17/07 11:20 AM	WC_070717A
	P-SB-16-12-13	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/17/07	1	07/17/07 02:00 PM	PH_070717A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707084

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-SB-16-12-13	Soil	E310.1	Soluble Alkalinity of Soil	26560	1	07/18/07 09:10 AM	TITRATOR_070718A
0707084-04B	P-SB-16-12-13	Soil	D2216	Percent Moisture	PMOIST_070717A	1	07/17/07 11:30 AM	PMOIST_070717A
	P-SB-16-12-13	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/23/07 05:09 PM	ICP-MS_070723B
	P-SB-16-12-13	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/24/07 09:50 PM	ICP-MS_070724A
	P-SB-16-12-13	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/20/07 06:43 PM	ICP-MS3_070720A
0707084-05A	P-SB-17-8-10	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 11:55 AM	IC2_070720A
	P-SB-17-8-10	Soil	SW9056	Anions by IC method - Soil	26582	10	07/20/07 01:25 PM	IC2_070720A
	P-SB-17-8-10	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/17/07	1	07/17/07 11:20 AM	WC_070717A
	P-SB-17-8-10	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/17/07	1	07/17/07 02:00 PM	PH_070717A
	P-SB-17-8-10	Soil	E310.1	Soluble Alkalinity of Soil	26560	1	07/18/07 09:11 AM	TITRATOR_070718A
0707084-05B	P-SB-17-8-10	Soil	D2216	Percent Moisture	PMOIST_070723A	1	07/23/07	PMOIST_070723A
	P-SB-17-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/23/07 05:13 PM	ICP-MS_070723B
	P-SB-17-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/24/07 09:54 PM	ICP-MS_070724A
	P-SB-17-8-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/20/07 06:47 PM	ICP-MS3_070720A
0707084-06A	P-SB-17-11-12	Soil	SW9056	Anions by IC method - Soil	26582	2	07/20/07 01:40 PM	IC2_070720A
	P-SB-17-11-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/17/07	1	07/17/07 11:20 AM	WC_070717A
	P-SB-17-11-12	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/17/07	1	07/17/07 02:00 PM	PH_070717A
	P-SB-17-11-12	Soil	E310.1	Soluble Alkalinity of Soil	26560	1	07/18/07 09:19 AM	TITRATOR_070718A
0707084-06B	P-SB-17-11-12	Soil	D2216	Percent Moisture	PMOIST_070723A	1	07/23/07	PMOIST_070723A
	P-SB-17-11-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	100	07/23/07 05:17 PM	ICP-MS_070723B
	P-SB-17-11-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/23/07 05:25 PM	ICP-MS_070723B
	P-SB-17-11-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/20/07 06:51 PM	ICP-MS3_070720A
0707084-07A	P-EB-S-07-13-01-1	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	26545	1	07/17/07 07:48 PM	ICP-MS3_070717A
0707084-07B	P-EB-S-07-13-01-1	Equipment Blank	E310.1	Alkalinity	R32626	1	07/17/07 01:17 PM	TITRATOR_070717A
0707084-07C	P-EB-S-07-13-01-1	Equipment Blank	E300	Anions by IC method - Water	R32610	1	07/16/07 12:27 PM	IC_070716A
0707084-08A	P-SB-16-12-13-D	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 01:55 PM	IC2_070720A
	P-SB-16-12-13-D	Soil	SW9056	Anions by IC method - Soil	26582	10	07/20/07 03:43 PM	IC2_070720A
	P-SB-16-12-13-D	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/17/07	1	07/17/07 11:20 AM	WC_070717A
	P-SB-16-12-13-D	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/17/07	1	07/17/07 02:00 PM	PH_070717A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707084

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-SB-16-12-13-D	Soil	E310.1	Soluble Alkalinity of Soil	26560	1	07/18/07 09:27 AM	TITRATOR_070718A
0707084-08B	P-SB-16-12-13-D	Soil	D2216	Percent Moisture	PMOIST_070717A	1	07/17/07 11:30 AM	PMOIST_070717A
	P-SB-16-12-13-D	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	1000	07/23/07 04:49 PM	ICP-MS_070723B
	P-SB-16-12-13-D	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	100	07/23/07 05:21 PM	ICP-MS_070723B
	P-SB-16-12-13-D	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	200	07/24/07 09:59 PM	ICP-MS_070724A
	P-SB-16-12-13-D	Soil	SW6020	Trace Metals: ICP-MS - Solid	26583	20	07/20/07 06:55 PM	ICP-MS3_070720A

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-13-7-8
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-01
Project No:	128161	Collection Date:	07/12/07 08:35 AM
Lab Order:	0707084	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	78.1	2.23	8.91		mg/Kg-dry	20	07/20/07 06:32 PM
Calcium	48200	1390	1390		mg/Kg-dry	500	07/23/07 04:52 PM
Iron	12200	557	557		mg/Kg-dry	200	07/23/07 04:56 PM
Magnesium	8880	55.7	55.7		mg/Kg-dry	20	07/20/07 06:32 PM
Potassium	6920	55.7	55.7		mg/Kg-dry	20	07/20/07 06:32 PM
Sodium	3590	55.7	55.7		mg/Kg-dry	20	07/20/07 06:32 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	100	58.5	58.5		mg/kg-dry	1	07/18/07 09:04 AM
Alkalinity, Carbonate (As CaCO3)	ND	58.5	58.5		mg/kg-dry	1	07/18/07 09:04 AM
Alkalinity, Hydroxide (As CaCO3)	ND	58.5	58.5		mg/kg-dry	1	07/18/07 09:04 AM
Alkalinity, Total (As CaCO3)	100	58.5	58.5		mg/kg-dry	1	07/18/07 09:04 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	11.9	5.85	5.85		mg/Kg-dry	1	07/20/07 10:56 AM
Chloride	1360	58.5	58.5		mg/Kg-dry	10	07/20/07 12:09 PM
Nitrate-N	ND	5.85	5.85		mg/Kg-dry	1	07/20/07 10:56 AM
Sulfate	2390	117	117		mg/Kg-dry	10	07/20/07 12:09 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.61	0	0		pH Units	1	07/17/07 02:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	14.5	0	0	N	WT%	1	07/17/07 11:30 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	3980	10.0	10.0		µmhos/cm	1	07/17/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-13-10-12
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-02
Project No:	128161	Collection Date:	07/12/07 08:45 AM
Lab Order:	0707084	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	282	2.27	9.07		mg/Kg-dry	20	07/20/07 06:36 PM
Calcium	8200	567	567		mg/Kg-dry	200	07/23/07 05:01 PM
Iron	9840	567	567		mg/Kg-dry	200	07/23/07 05:01 PM
Magnesium	6980	56.7	56.7		mg/Kg-dry	20	07/20/07 06:36 PM
Potassium	5950	56.7	56.7		mg/Kg-dry	20	07/20/07 06:36 PM
Sodium	2970	56.7	56.7		mg/Kg-dry	20	07/20/07 06:36 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	120	60.5	60.5		mg/kg-dry	1	07/18/07 09:05 AM
Alkalinity, Carbonate (As CaCO3)	ND	60.5	60.5		mg/kg-dry	1	07/18/07 09:05 AM
Alkalinity, Hydroxide (As CaCO3)	ND	60.5	60.5		mg/kg-dry	1	07/18/07 09:05 AM
Alkalinity, Total (As CaCO3)	120	60.5	60.5		mg/kg-dry	1	07/18/07 09:05 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	16.9	5.96	5.96		mg/Kg-dry	1	07/20/07 11:11 AM
Chloride	1570	59.6	59.6		mg/Kg-dry	10	07/20/07 12:24 PM
Nitrate-N	ND	5.96	5.96		mg/Kg-dry	1	07/20/07 11:11 AM
Sulfate	346	11.9	11.9		mg/Kg-dry	1	07/20/07 11:11 AM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.53	0	0		pH Units	1	07/17/07 02:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	17.6	0	0	N	WT%	1	07/17/07 11:30 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	3290	10.0	10.0		µmhos/cm	1	07/17/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-16-10-11
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-03
Project No:	128161	Collection Date:	07/12/07 02:40 PM
Lab Order:	0707084	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	311	2.21	8.83		mg/Kg-dry	20	07/20/07 06:39 PM
Calcium	36200	552	552		mg/Kg-dry	200	07/23/07 05:05 PM
Iron	16000	552	552		mg/Kg-dry	200	07/23/07 05:05 PM
Magnesium	10600	55.2	55.2		mg/Kg-dry	20	07/20/07 06:39 PM
Potassium	9290	55.2	55.2		mg/Kg-dry	20	07/20/07 06:39 PM
Sodium	3660	55.2	55.2		mg/Kg-dry	20	07/20/07 06:39 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	104	60.3	60.3		mg/kg-dry	1	07/18/07 09:07 AM
Alkalinity, Carbonate (As CaCO3)	ND	60.3	60.3		mg/kg-dry	1	07/18/07 09:07 AM
Alkalinity, Hydroxide (As CaCO3)	ND	60.3	60.3		mg/kg-dry	1	07/18/07 09:07 AM
Alkalinity, Total (As CaCO3)	104	60.3	60.3		mg/kg-dry	1	07/18/07 09:07 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	5.94	5.94		mg/Kg-dry	1	07/20/07 11:25 AM
Chloride	2100	59.4	59.4		mg/Kg-dry	10	07/20/07 12:56 PM
Nitrate-N	ND	5.94	5.94		mg/Kg-dry	1	07/20/07 11:25 AM
Sulfate	244	11.9	11.9		mg/Kg-dry	1	07/20/07 11:25 AM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.32	0	0		pH Units	1	07/17/07 02:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	17.7	0	0	N	WT%	1	07/17/07 11:30 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	3870	10.0	10.0		µmhos/cm	1	07/17/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-16-12-13
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-04
Project No:	128161	Collection Date:	07/12/07 02:50 PM
Lab Order:	0707084	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	272	2.30	9.18		mg/Kg-dry	20	07/20/07 06:43 PM
Calcium	50900	574	574		mg/Kg-dry	200	07/23/07 05:09 PM
Iron	15800	574	574		mg/Kg-dry	200	07/23/07 05:09 PM
Magnesium	6040	574	574		mg/Kg-dry	200	07/24/07 09:50 PM
Potassium	9590	57.4	57.4		mg/Kg-dry	20	07/20/07 06:43 PM
Sodium	3690	57.4	57.4		mg/Kg-dry	20	07/20/07 06:43 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	113	61.3	61.3		mg/kg-dry	1	07/18/07 09:10 AM
Alkalinity, Carbonate (As CaCO3)	ND	61.3	61.3		mg/kg-dry	1	07/18/07 09:10 AM
Alkalinity, Hydroxide (As CaCO3)	ND	61.3	61.3		mg/kg-dry	1	07/18/07 09:10 AM
Alkalinity, Total (As CaCO3)	113	61.3	61.3		mg/kg-dry	1	07/18/07 09:10 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	6.14	6.14		mg/Kg-dry	1	07/20/07 11:40 AM
Chloride	2510	61.4	61.4		mg/Kg-dry	10	07/20/07 01:11 PM
Nitrate-N	ND	6.14	6.14		mg/Kg-dry	1	07/20/07 11:40 AM
Sulfate	330	12.3	12.3		mg/Kg-dry	1	07/20/07 11:40 AM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.31	0	0		pH Units	1	07/17/07 02:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	18.6	0	0	N	WT%	1	07/17/07 11:30 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	4520	10.0	10.0		µmhos/cm	1	07/17/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-17-8-10
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-05
Project No:	128161	Collection Date:	07/13/07 08:10 AM
Lab Order:	0707084	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	532	2.42	9.68		mg/Kg-dry	20	07/20/07 06:47 PM
Calcium	36900	605	605		mg/Kg-dry	200	07/23/07 05:13 PM
Iron	23300	605	605		mg/Kg-dry	200	07/23/07 05:13 PM
Magnesium	8980	605	605		mg/Kg-dry	200	07/24/07 09:54 PM
Potassium	9240	605	605		mg/Kg-dry	200	07/23/07 05:13 PM
Sodium	3990	60.5	60.5		mg/Kg-dry	20	07/20/07 06:47 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	165	65.1	65.1		mg/kg-dry	1	07/18/07 09:11 AM
Alkalinity, Carbonate (As CaCO3)	ND	65.1	65.1		mg/kg-dry	1	07/18/07 09:11 AM
Alkalinity, Hydroxide (As CaCO3)	ND	65.1	65.1		mg/kg-dry	1	07/18/07 09:11 AM
Alkalinity, Total (As CaCO3)	165	65.1	65.1		mg/kg-dry	1	07/18/07 09:11 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	9.86	6.58	6.58		mg/Kg-dry	1	07/20/07 11:55 AM
Chloride	1120	65.8	65.8		mg/Kg-dry	10	07/20/07 01:25 PM
Nitrate-N	ND	6.58	6.58		mg/Kg-dry	1	07/20/07 11:55 AM
Sulfate	2300	132	132		mg/Kg-dry	10	07/20/07 01:25 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.59	0	0		pH Units	1	07/17/07 02:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	24.2	0	0	N	WT%	1	07/23/07
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	2990	10.0	10.0		µmhos/cm	1	07/17/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-17-11-12
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-06
Project No:	128161	Collection Date:	07/13/07 08:20 AM
Lab Order:	0707084	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	44.2	2.41	9.63		mg/Kg-dry	20	07/20/07 06:51 PM
Calcium	4090	301	301		mg/Kg-dry	100	07/23/07 05:17 PM
Iron	13600	301	301		mg/Kg-dry	100	07/23/07 05:17 PM
Magnesium	8220	60.2	60.2		mg/Kg-dry	20	07/20/07 06:51 PM
Potassium	7930	60.2	60.2		mg/Kg-dry	20	07/20/07 06:51 PM
Sodium	2550	60.2	60.2		mg/Kg-dry	20	07/20/07 06:51 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	460	63.1	63.1		mg/kg-dry	1	07/18/07 09:19 AM
Alkalinity, Carbonate (As CaCO3)	206	63.1	63.1		mg/kg-dry	1	07/18/07 09:19 AM
Alkalinity, Hydroxide (As CaCO3)	ND	63.1	63.1		mg/kg-dry	1	07/18/07 09:19 AM
Alkalinity, Total (As CaCO3)	666	63.1	63.1		mg/kg-dry	1	07/18/07 09:19 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	12.4	12.4		mg/Kg-dry	2	07/20/07 01:40 PM
Chloride	258	12.4	12.4		mg/Kg-dry	2	07/20/07 01:40 PM
Nitrate-N	ND	12.4	12.4		mg/Kg-dry	2	07/20/07 01:40 PM
Sulfate	541	24.7	24.7		mg/Kg-dry	2	07/20/07 01:40 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.14	0	0		pH Units	1	07/17/07 02:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	20.9	0	0	N	WT%	1	07/23/07
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	1310	10.0	10.0		µmhos/cm	1	07/17/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-S-07-13-01-1
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-07
Project No:	128161	Collection Date:	07/13/07 12:30 PM
Lab Order:	0707084	Matrix:	Equipment Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	ND	0.00300	0.0100		mg/L	1	07/17/07 07:48 PM
Calcium	ND	0.100	0.100		mg/L	1	07/17/07 07:48 PM
Iron	ND	0.0500	0.100		mg/L	1	07/17/07 07:48 PM
Magnesium	ND	0.100	0.100		mg/L	1	07/17/07 07:48 PM
Potassium	ND	0.100	0.100		mg/L	1	07/17/07 07:48 PM
Sodium	ND	0.100	0.100		mg/L	1	07/17/07 07:48 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	ND	0.300	1.00		mg/L	1	07/16/07 12:27 PM
Chloride	ND	0.300	1.00		mg/L	1	07/16/07 12:27 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	07/16/07 12:27 PM
Sulfate	ND	1.00	3.00		mg/L	1	07/16/07 12:27 PM
Alkalinity		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:17 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:17 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:17 PM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:17 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-16-12-13-D
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707084-08
Project No:	128161	Collection Date:	07/12/07 02:50 PM
Lab Order:	0707084	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	1470	11.9	47.8		mg/Kg-dry	100	07/23/07 05:21 PM
Calcium	123000	2990	2990		mg/Kg-dry	1000	07/23/07 04:49 PM
Iron	14800	299	299		mg/Kg-dry	100	07/23/07 05:21 PM
Magnesium	6400	597	597		mg/Kg-dry	200	07/24/07 09:59 PM
Potassium	9200	59.7	59.7		mg/Kg-dry	20	07/20/07 06:55 PM
Sodium	3760	59.7	59.7		mg/Kg-dry	20	07/20/07 06:55 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	117	61.1	61.1		mg/kg-dry	1	07/18/07 09:27 AM
Alkalinity, Carbonate (As CaCO3)	ND	61.1	61.1		mg/kg-dry	1	07/18/07 09:27 AM
Alkalinity, Hydroxide (As CaCO3)	ND	61.1	61.1		mg/kg-dry	1	07/18/07 09:27 AM
Alkalinity, Total (As CaCO3)	117	61.1	61.1		mg/kg-dry	1	07/18/07 09:27 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	6.07	6.07		mg/Kg-dry	1	07/20/07 01:55 PM
Chloride	2520	60.7	60.7		mg/Kg-dry	10	07/20/07 03:43 PM
Nitrate-N	ND	6.07	6.07		mg/Kg-dry	1	07/20/07 01:55 PM
Sulfate	428	12.1	12.1		mg/Kg-dry	1	07/20/07 01:55 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.38	0	0		pH Units	1	07/17/07 02:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	18.7	0	0	N	WT%	1	07/17/07 11:30 AM
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	4140	10.0	10.0		µmhos/cm	1	07/17/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070719B

Sample ID:	Batch ID:	TestNo:	Units:								
SampType:	Run ID:	Analysis Date:	Prep Date:								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Sodium	206	25.0	0	194				5.91	10		
Sample ID: 0707066-01D MS	Batch ID: 26545	TestNo: SW6020	Units: mg/L								
SampType: MS	Run ID: ICP-MS_070719B	Analysis Date: 07/19/07 05:00 PM	Prep Date: 07/16/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Sodium	200	5.00	5.00	194	115	80	120				
Sample ID: 0707066-01D MSD	Batch ID: 26545	TestNo: SW6020	Units: mg/L								
SampType: MSD	Run ID: ICP-MS_070719B	Analysis Date: 07/19/07 05:04 PM	Prep Date: 07/16/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Sodium	196	5.00	5.00	194	43.0	80	120	1.82	15	S	
Sample ID: 0707066-01D PDS	Batch ID: 26545	TestNo: SW6020	Units: mg/L								
SampType: PDS	Run ID: ICP-MS_070719B	Analysis Date: 07/19/07 05:08 PM	Prep Date: 07/16/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Sodium	413	5.00	250	194	87.6	75	125				
Sample ID: 0707066-01D SD	Batch ID: 26545	TestNo: SW6020	Units: mg/L								
SampType: SD	Run ID: ICP-MS_070719B	Analysis Date: 07/19/07 05:45 PM	Prep Date: 07/16/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	99.3	10.0	0	94.7				4.76	10		
Magnesium	30.3	10.0	0	28.4				6.61	10		
Sample ID: 0707066-01D MS	Batch ID: 26545	TestNo: SW6020	Units: mg/L								
SampType: MS	Run ID: ICP-MS_070719B	Analysis Date: 07/19/07 05:49 PM	Prep Date: 07/16/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	98.3	2.00	5.00	94.7	72.8	80	120			S	
Magnesium	32.1	2.00	5.00	28.4	75.2	80	120			S	
Sample ID: 0707066-01D MSD	Batch ID: 26545	TestNo: SW6020	Units: mg/L								
SampType: MSD	Run ID: ICP-MS_070719B	Analysis Date: 07/19/07 05:53 PM	Prep Date: 07/16/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	105	2.00	5.00	94.7	204	80	120	6.46	15	S	
Magnesium	34.4	2.00	5.00	28.4	120	80	120	6.73	15		
Sample ID: 0707066-01D PDS	Batch ID: 26545	TestNo: SW6020	Units: mg/L								
SampType: PDS	Run ID: ICP-MS_070719B	Analysis Date: 07/19/07 05:58 PM	Prep Date: 07/16/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Calcium	171	2.00	100	94.7	76.8	75	125				
Magnesium	105	2.00	100	28.4	76.7	75	125				

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070719B

Sample ID:	ICV1-070719	Batch ID:	R32680	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070719B	Analysis Date:	07/19/07 01:36 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0987	0.0100	0.100	0	98.7	90	110			
Calcium	2.43	0.100	2.50	0	97.2	90	110			
Magnesium	2.34	0.100	2.50	0	93.7	90	110			
Sodium	2.39	0.100	2.50	0	95.6	90	110			

Sample ID:	CCV2-070719	Batch ID:	R32680	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070719B	Analysis Date:	07/19/07 03:56 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.196	0.0100	0.200	0	98.0	90	110			
Sodium	4.61	0.100	5.00	0	92.3	90	110			

Sample ID:	CCV3-070719	Batch ID:	R32680	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070719B	Analysis Date:	07/19/07 05:16 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.5	90	110			
Calcium	4.76	0.100	5.00	0	95.1	90	110			
Magnesium	4.60	0.100	5.00	0	91.9	90	110			
Sodium	4.64	0.100	5.00	0	92.8	90	110			

Sample ID:	CCV4-070719	Batch ID:	R32680	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070719B	Analysis Date:	07/19/07 06:05 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.73	0.100	5.00	0	94.6	90	110			
Magnesium	4.65	0.100	5.00	0	93.0	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070723B

Sample ID:	Batch ID:	TestNo:	Units:
0707085-20B SD	26583	SW6020	mg/Kg-dry
SampType: SD	Run ID: ICP-MS_070723B	Analysis Date: 07/23/07 03:17 PM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Calcium	1070	65.8	0
		Ref Val	%REC
		910.9	
		LowLimit	HighLimit
			%RPD
			RPD Limit
			Qual
			16.0
			10
			R
Sample ID: 0707085-20B MS	Batch ID: 26583	TestNo: SW6020	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS_070723B	Analysis Date: 07/23/07 03:21 PM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Calcium	1150	13.7	273.6
		Ref Val	%REC
		910.9	86.2
		LowLimit	HighLimit
		80	120
			%RPD
			RPD Limit
			Qual
Sample ID: 0707085-20B MSD	Batch ID: 26583	TestNo: SW6020	Units: mg/Kg-dry
SampType: MSD	Run ID: ICP-MS_070723B	Analysis Date: 07/23/07 03:25 PM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Calcium	2770	13.4	268.3
		Ref Val	%REC
		910.9	691
		LowLimit	HighLimit
		80	120
			%RPD
			RPD Limit
			Qual
			82.8
			25
			SR
Sample ID: 0707085-20B PDS	Batch ID: 26583	TestNo: SW6020	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS_070723B	Analysis Date: 07/23/07 03:29 PM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Calcium	2070	13.2	1316
		Ref Val	%REC
		910.9	88.3
		LowLimit	HighLimit
		75	125

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070723B

Sample ID:	ICV1-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 11:15 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0992	0.0100	0.100	0	99.2	90	110			
Calcium	2.40	0.100	2.50	0	96.1	90	110			
Iron	2.46	0.100	2.50	0	98.2	90	110			
Magnesium	2.42	0.100	2.50	0	96.6	90	110			
Potassium	2.40	0.100	2.50	0	95.9	90	110			
Sodium	2.41	0.100	2.50	0	96.4	90	110			

Sample ID:	CCV3-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 02:36 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.193	0.0100	0.200	0	96.5	90	110			
Calcium	4.83	0.100	5.00	0	96.6	90	110			
Magnesium	5.17	0.100	5.00	0	103	90	110			
Potassium	4.92	0.100	5.00	0	98.4	90	110			
Sodium	5.10	0.100	5.00	0	102	90	110			

Sample ID:	CCV4-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 03:37 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.195	0.0100	0.200	0	97.6	90	110			
Calcium	4.81	0.100	5.00	0	96.2	90	110			
Iron	5.42	0.100	5.00	0	108	90	110			
Potassium	5.33	0.100	5.00	0	107	90	110			

Sample ID:	CCV5-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 05:33 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.186	0.0100	0.200	0	93.0	90	110			
Calcium	4.69	0.100	5.00	0	93.8	90	110			
Iron	4.57	0.100	5.00	0	91.4	90	110			
Potassium	5.12	0.100	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070724A

Sample ID: MB-26583	Batch ID: 26583	TestNo: SW6020	Units: mg/Kg
SampType: MBLK	Run ID: ICP-MS_070724A	Analysis Date: 07/24/07 09:38 PM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Calcium	ND	12.5	

Sample ID: LCS-26583	Batch ID: 26583	TestNo: SW6020	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS_070724A	Analysis Date: 07/24/07 09:42 PM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Calcium	246	12.5	250.0

Sample ID: LCSD-26583	Batch ID: 26583	TestNo: SW6020	Units: mg/Kg
SampType: LCSD	Run ID: ICP-MS_070724A	Analysis Date: 07/24/07 09:46 PM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Calcium	252	12.5	250.0

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070724A

Sample ID:	ICV1-070724	Batch ID:	R32736	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070724A	Analysis Date:	07/24/07 05:20 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0982	0.0100	0.100	0	98.2	90	110			
Calcium	2.40	0.100	2.50	0	96.1	90	110			
Iron	2.58	0.100	2.50	0	103	90	110			
Magnesium	2.41	0.100	2.50	0	96.4	90	110			
Potassium	2.43	0.100	2.50	0	97.0	90	110			
Sodium	2.41	0.100	2.50	0	96.3	90	110			

Sample ID:	CCV3-070724	Batch ID:	R32736	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070724A	Analysis Date:	07/24/07 09:26 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.184	0.0100	0.200	0	91.8	90	110			
Calcium	4.50	0.100	5.00	0	90.0	90	110			
Magnesium	4.60	0.100	5.00	0	92.0	90	110			

Sample ID:	CCV4-070724	Batch ID:	R32736	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070724A	Analysis Date:	07/24/07 10:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.183	0.0100	0.200	0	91.6	90	110			
Calcium	4.54	0.100	5.00	0	90.7	90	110			
Iron	4.55	0.100	5.00	0	90.9	90	110			
Magnesium	4.59	0.100	5.00	0	91.9	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070717A

Sample ID:	MB-26545	Batch ID:	26545	TestNo:	SW6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 07:37 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.100								
Iron	ND	0.100								
Magnesium	ND	0.100								
Potassium	ND	0.100								
Sodium	ND	0.100								

Sample ID:	LCS-26545	Batch ID:	26545	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 07:41 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.195	0.0100	0.200	0	97.4	80	120			
Calcium	4.82	0.100	5.00	0	96.4	80	120			
Iron	4.67	0.100	5.00	0	93.5	80	120			
Magnesium	4.97	0.100	5.00	0	99.5	80	120			
Potassium	4.91	0.100	5.00	0	98.2	80	120			
Sodium	4.93	0.100	5.00	0	98.7	80	120			

Sample ID:	LCSD-26545	Batch ID:	26545	TestNo:	SW6020	Units:	mg/L			
SampType:	LCSD	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 07:45 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.192	0.0100	0.200	0	95.8	80	120	1.66	15	
Calcium	4.77	0.100	5.00	0	95.3	80	120	1.17	15	
Iron	4.87	0.100	5.00	0	97.3	80	120	4.05	15	
Magnesium	5.24	0.100	5.00	0	105	80	120	5.13	15	
Potassium	5.14	0.100	5.00	0	103	80	120	4.60	15	
Sodium	5.15	0.100	5.00	0	103	80	120	4.25	15	

Sample ID:	0707066-01D SD	Batch ID:	26545	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 08:00 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.118	0.0500	0	0.117				0.725	10	
Iron	0	0.500	0	0				0	10	
Potassium	7.27	0.500	0	7.02				3.51	10	

Sample ID:	0707066-01D MS	Batch ID:	26545	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 08:04 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.311	0.0100	0.200	0.117	97.2	80	120			
Iron	4.60	0.100	5.00	0	92.0	80	120			
Potassium	11.9	0.100	5.00	7.02	97.6	80	120			

Sample ID:	0707066-01D MSD	Batch ID:	26545	TestNo:	SW6020	Units:	mg/L
SampType:	MSD	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 08:07 PM	Prep Date:	07/16/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070717A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.310	0.0100	0.200	0.117	96.8	80	120	0.225	15	
Iron	4.59	0.100	5.00	0	91.8	80	120	0.174	15	
Potassium	11.8	0.100	5.00	7.02	96.6	80	120	0.421	15	

Sample ID:	0707066-01D PDS	Batch ID:	26545	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 08:11 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.306	0.0100	0.200	0.117	94.8	75	125			
Iron	4.70	0.100	5.00	0	93.9	75	125			
Potassium	11.2	0.100	5.00	7.02	84.2	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070717A

Sample ID:	ICV1-070717	Batch ID:	R32644	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 07:21 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0975	0.0100	0.100	0	97.5	90	110			
Calcium	2.45	0.100	2.50	0	97.9	90	110			
Iron	2.57	0.100	2.50	0	103	90	110			
Magnesium	2.63	0.100	2.50	0	105	90	110			
Potassium	2.58	0.100	2.50	0	103	90	110			
Sodium	2.58	0.100	2.50	0	103	90	110			

Sample ID:	CCV8-070717	Batch ID:	R32644	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070717A	Analysis Date:	07/17/07 08:22 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.194	0.0100	0.200	0	96.8	90	110			
Calcium	4.69	0.100	5.00	0	93.8	90	110			
Iron	4.68	0.100	5.00	0	93.6	90	110			
Magnesium	5.01	0.100	5.00	0	100	90	110			
Potassium	4.94	0.100	5.00	0	98.7	90	110			
Sodium	4.90	0.100	5.00	0	98.0	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070720A

Sample ID:	MB-26583	Batch ID:	26583	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 05:36 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	2.00								
Iron	ND	12.5								
Magnesium	ND	12.5								
Potassium	ND	12.5								
Sodium	ND	12.5								

Sample ID:	LCS-26583	Batch ID:	26583	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 05:40 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	50.8	2.00	50.00	0	102	80	120			
Iron	265	12.5	250.0	0	106	80	120			
Magnesium	282	12.5	250.0	0	113	80	120			
Potassium	288	12.5	250.0	0	115	80	120			
Sodium	268	12.5	250.0	0	107	80	120			

Sample ID:	LCSD-26583	Batch ID:	26583	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCSD	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 05:43 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	53.4	2.00	50.00	0	107	80	120	5.00	25	
Iron	264	12.5	250.0	0	105	80	120	0.473	25	
Magnesium	278	12.5	250.0	0	111	80	120	1.43	25	
Potassium	286	12.5	250.0	0	114	80	120	0.523	25	
Sodium	264	12.5	250.0	0	106	80	120	1.50	25	

Sample ID:	0707085-20B SD	Batch ID:	26583	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 05:58 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	32.7	10.5	0	31.21				4.53	10	
Iron	6810	65.8	0	7398				8.26	10	
Magnesium	1070	65.8	0	1124				5.31	10	
Potassium	1820	65.8	0	1893				4.16	10	
Sodium	130	65.8	0	171.1				27.2	10	R

Sample ID:	0707085-20B MS	Batch ID:	26583	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 06:02 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	92.5	2.19	54.72	31.21	112	80	120			
Iron	7690	13.7	273.6	7398	105	80	120			
Magnesium	1490	13.7	273.6	1124	135	80	120			S
Potassium	2380	13.7	273.6	1893	178	80	120			S
Sodium	444	13.7	273.6	171.1	99.6	80	120			

Sample ID:	0707085-20B MSD	Batch ID:	26583	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 06:06 PM	Prep Date:	07/18/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070720A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	90.8	2.15	53.66	31.21	111	80	120	1.87	25	
Iron	7290	13.4	268.3	7398	-38.5	80	120	5.22	25	S
Magnesium	1450	13.4	268.3	1124	122	80	120	2.79	25	S
Potassium	2280	13.4	268.3	1893	143	80	120	4.40	25	S
Sodium	439	13.4	268.3	171.1	99.9	80	120	0.979	25	

Sample ID:	0707085-20B PDS	Batch ID:	26583	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	PDS	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 06:09 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	82.9	2.11	52.64	31.21	98.2	75	125			
Iron	8100	13.2	1316	7398	53.2	75	125			S
Magnesium	2240	13.2	1316	1124	84.6	75	125			
Potassium	2960	13.2	1316	1893	80.9	75	125			
Sodium	1380	13.2	1316	171.1	92.0	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070720A

Sample ID:	ICV1-070720	Batch ID:	R32713	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 02:12 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0913	0.0100	0.100	0	91.3	90	110			
Iron	2.52	0.100	2.50	0	101	90	110			
Magnesium	2.55	0.100	2.50	0	102	90	110			
Potassium	2.62	0.100	2.50	0	105	90	110			
Sodium	2.47	0.100	2.50	0	98.7	90	110			

Sample ID:	CCV3-070720	Batch ID:	R32713	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 05:24 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.7	90	110			
Iron	5.02	0.100	5.00	0	100	90	110			
Magnesium	5.12	0.100	5.00	0	102	90	110			
Potassium	5.36	0.100	5.00	0	107	90	110			
Sodium	4.95	0.100	5.00	0	99.0	90	110			

Sample ID:	CCV4-070720	Batch ID:	R32713	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 06:20 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	90	110			
Iron	4.96	0.100	5.00	0	99.1	90	110			
Magnesium	4.92	0.100	5.00	0	98.4	90	110			
Potassium	5.14	0.100	5.00	0	103	90	110			
Sodium	4.79	0.100	5.00	0	95.8	90	110			

Sample ID:	CCV5-070720	Batch ID:	R32713	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_070720A	Analysis Date:	07/20/07 07:18 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.187	0.0100	0.200	0	93.4	90	110			
Magnesium	4.96	0.100	5.00	0	99.1	90	110			
Potassium	5.21	0.100	5.00	0	104	90	110			
Sodium	4.76	0.100	5.00	0	95.3	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC_070716A

Sample ID:	ICV-070716	Batch ID:	R32610	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC_070716A	Analysis Date:	07/16/07 11:21 AM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	51.0	1.00	50.00	0	102	90	110			
Chloride	25.0	1.00	25.00	0	100	90	110			
Nitrate-N	13.4	0.500	12.50	0	107	90	110			
Sulfate	72.8	3.00	75.00	0	97.1	90	110			

Sample ID:	MB-070716	Batch ID:	R32610	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC_070716A	Analysis Date:	07/16/07 11:39 AM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Nitrate-N	ND	0.500								
Sulfate	ND	3.00								

Sample ID:	LCS-070716	Batch ID:	R32610	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC_070716A	Analysis Date:	07/16/07 11:55 AM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.7	1.00	20.00	0	98.5	90	110			
Chloride	9.58	1.00	10.00	0	95.8	90	110			
Nitrate-N	5.32	0.500	5.000	0	106	90	110			
Sulfate	28.2	3.00	30.00	0	93.9	90	110			

Sample ID:	LCSD-070716	Batch ID:	R32610	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC_070716A	Analysis Date:	07/16/07 12:11 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.7	1.00	20.00	0	98.5	90	110	0.0812	20	
Chloride	9.63	1.00	10.00	0	96.3	90	110	0.532	20	
Nitrate-N	5.26	0.500	5.000	0	105	90	110	1.25	20	
Sulfate	28.3	3.00	30.00	0	94.3	90	110	0.405	20	

Sample ID:	0707084-07C MS	Batch ID:	R32610	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_070716A	Analysis Date:	07/16/07 12:59 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.8	1.00	20.00	0	93.8	90	110			
Chloride	9.32	1.00	10.00	0	93.2	90	110			
Nitrate-N	4.90	0.500	5.000	0	98.0	90	110			
Sulfate	27.4	3.00	30.00	0	91.5	90	110			

Sample ID:	0707084-07C MSD	Batch ID:	R32610	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC_070716A	Analysis Date:	07/16/07 01:14 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.0	1.00	20.00	0	94.9	90	110	1.16	20	
Chloride	9.58	1.00	10.00	0	95.8	90	110	2.69	20	
Nitrate-N	4.93	0.500	5.000	0	98.5	90	110	0.517	20	
Sulfate	27.6	3.00	30.00	0	91.9	90	110	0.422	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC_070716A

Sample ID:	CCV1-070716	Batch ID:	R32610	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_070716A	Analysis Date:	07/16/07 01:30 PM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.3	1.00	20.00	0	96.6	90	110			
Chloride	9.62	1.00	10.00	0	96.2	90	110			
Nitrate-N	4.97	0.500	5.000	0	99.4	90	110			
Sulfate	28.3	3.00	30.00	0	94.2	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070720A

Sample ID:	MB-26582	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg			
SampType:	MBLK	Run ID:	IC2_070720A	Analysis Date:	07/20/07 10:12 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	5.00								
Chloride	ND	5.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID:	LCS-26582	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 10:27 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	101	5.00	100.0	0	101	80	120			
Chloride	50.4	5.00	50.00	0	101	80	120			
Nitrate-N	25.5	5.00	25.00	0	102	80	120			
Sulfate	150	10.0	150.0	0	100	80	120			

Sample ID:	LCS-26582	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 10:41 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	101	5.00	100.0	0	101	80	120	0.236	20	
Chloride	50.5	5.00	50.00	0	101	80	120	0.205	20	
Nitrate-N	25.6	5.00	25.00	0	103	80	120	0.590	20	
Sulfate	151	10.0	150.0	0	101	80	120	0.587	20	

Sample ID:	0707095-03AMS	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 02:53 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	135	6.11	122.2	0	110	80	120			
Nitrate-N	32.2	6.11	122.2	0	26.3	80	120			S

Sample ID:	0707095-03AMSD	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IC2_070720A	Analysis Date:	07/20/07 03:07 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	134	6.11	122.2	0	110	80	120	0.503	20	
Nitrate-N	32.0	6.11	122.2	0	26.2	80	120	0.640	20	S

Sample ID:	0707095-03AMS	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 04:41 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	2150	61.1	610.8	1557	96.4	80	120			
Sulfate	2640	122	1832	790.9	101	80	120			

Sample ID:	0707095-03AMSD	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IC2_070720A	Analysis Date:	07/20/07 04:56 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	2140	61.1	610.8	1557	96.2	80	120	0.0683	20	
Sulfate	2620	122	1832	790.9	99.9	80	120	0.648	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070720A

Sample ID:	0707095-03A DUP	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	DUP	Run ID:	IC2_070720A	Analysis Date:	07/20/07 05:11 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	6.15	6.11	0	0				200	25	R
Nitrate-N	0	6.11	0	0				0	25	
Chloride	2650	61.1	0	2595				1.98	25	
Sulfate	1630	122	0	1318				21.0	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070720A

Sample ID:	ICV-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	ICV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 09:44 AM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	51.0	5.00	50.00	0	102	90	110			
Chloride	25.2	5.00	25.00	0	101	90	110			
Nitrate-N	12.8	5.00	12.50	0	102	90	110			
Sulfate	76.2	10.0	75.00	0	102	90	110			

Sample ID:	CCV1-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 12:39 PM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	5.00	20.00	0	102	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.12	5.00	5.000	0	102	90	110			
Sulfate	30.2	10.0	30.00	0	101	90	110			

Sample ID:	CCV2-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 03:22 PM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.9	5.00	20.00	0	104	90	110			
Chloride	10.4	5.00	10.00	0	104	90	110			
Nitrate-N	5.25	5.00	5.000	0	105	90	110			
Sulfate	31.0	10.0	30.00	0	103	90	110			

Sample ID:	CCV3-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 06:09 PM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	5.00	20.00	0	102	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.13	5.00	5.000	0	103	90	110			
Sulfate	30.2	10.0	30.00	0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: PH_070717A

Sample ID:	ICV	Batch ID:	PH_S-07/17/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	ICV	Run ID:	PH_070717A	Analysis Date:	07/17/07 02:00 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	10.0	0	10.00	0	100	99	101			
Sample ID:	CCV1-070717	Batch ID:	PH_S-07/17/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070717A	Analysis Date:	07/17/07 02:00 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.05	0	7.000	0	101	97.1	102.9			
Sample ID:	0707084-03A DUP	Batch ID:	PH_S-07/17/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070717A	Analysis Date:	07/17/07 02:00 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.34	0	0	7.322				0.246	15	
Sample ID:	0707083-01B DUP	Batch ID:	PH_S-07/17/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070717A	Analysis Date:	07/17/07 02:00 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.99	0	0	7.934				0.716	15	
Sample ID:	CCV2-070717	Batch ID:	PH_S-07/17/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070717A	Analysis Date:	07/17/07 02:00 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.04	0	7.000	0	101	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_070717A

Sample ID:	0707085-08B DUP	Batch ID:	PMOIST_070717A	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_070717A	Analysis Date:	07/17/07 11:30 AM	Prep Date:	07/16/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	20.7	0	0	20.68				0.0815	30	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_070723A

Sample ID:	0707123-02B DUP	Batch ID:	PMOIST_070723A	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_070723A	Analysis Date:	07/23/07 12:00 AM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	22.5	0	0	22.42				0.186	30	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070717A

Sample ID:	ICV-070717	Batch ID:	R32626	TestNo:	E310.1	Units:	mg/L			
SampType:	ICV	Run ID:	TITRATOR_070717A	Analysis Date:	07/17/07 12:53 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	9.36	20.0	0							
Alkalinity, Carbonate (As CaCO3)	92.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	98	102			

Sample ID:	MBLK-070717	Batch ID:	R32626	TestNo:	E310.1	Units:	mg/L			
SampType:	MBLK	Run ID:	TITRATOR_070717A	Analysis Date:	07/17/07 12:55 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-070717	Batch ID:	R32626	TestNo:	E310.1	Units:	mg/L			
SampType:	LCS	Run ID:	TITRATOR_070717A	Analysis Date:	07/17/07 12:59 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	53.8	20.0	50.00	0	108	74	129			

Sample ID:	0707066-01C DUP	Batch ID:	R32626	TestNo:	E310.1	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_070717A	Analysis Date:	07/17/07 01:09 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	246	20.0	0	246.8				0.119	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	246	20.0	0	246.8				0.119	20	

Sample ID:	CCV-070717	Batch ID:	R32626	TestNo:	E310.1	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_070717A	Analysis Date:	07/17/07 01:24 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	11.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	90.2	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	102	20.0	100.0	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp. ANALYTICAL QC SUMMARY REPORT
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation RunID: TITRATOR_070718A

Sample ID: MB-26560	Batch ID: 26560	TestNo: E310.1	Units: mg/kg
SampType: MBLK	Run ID: TITRATOR_070718A	Analysis Date: 07/18/07 08:56 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	ND	50.0	
Alkalinity, Carbonate (As CaCO3)	ND	50.0	
Alkalinity, Hydroxide (As CaCO3)	ND	50.0	
Alkalinity, Total (As CaCO3)	ND	50.0	

Sample ID: LCS-26560	Batch ID: 26560	TestNo: E310.1	Units: mg/kg
SampType: LCS	Run ID: TITRATOR_070718A	Analysis Date: 07/18/07 09:00 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Total (As CaCO3)	270	50.0	250.0

Sample ID: 0707084-06A DUP	Batch ID: 26560	TestNo: E310.1	Units: mg/kg-dry
SampType: DUP	Run ID: TITRATOR_070718A	Analysis Date: 07/18/07 09:25 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	200	63.2	0
Alkalinity, Carbonate (As CaCO3)	187	63.2	0
Alkalinity, Hydroxide (As CaCO3)	0	63.2	0
Alkalinity, Total (As CaCO3)	388	63.2	0

Sample ID: 0707084-01A DUP	Batch ID: 26560	TestNo: E310.1	Units: mg/kg-dry
SampType: DUP	Run ID: TITRATOR_070718A	Analysis Date: 07/18/07 09:32 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	108	58.5	0
Alkalinity, Carbonate (As CaCO3)	0	58.5	0
Alkalinity, Hydroxide (As CaCO3)	0	58.5	0
Alkalinity, Total (As CaCO3)	108	58.5	0

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_070718A

Sample ID: ICV-070718	Batch ID: R32641	TestNo: E310.1	Units: mg/L							
SampType: ICV	Run ID: TITRATOR_070718A	Analysis Date: 07/18/07 08:54 AM	Prep Date: 07/18/07							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	9.68	50.0	0							
Alkalinity, Carbonate (As CaCO3)	92.3	50.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0							
Alkalinity, Total (As CaCO3)	102	50.0	100.0	0	102	90	110			

Sample ID: CCV1-070718	Batch ID: R32641	TestNo: E310.1	Units: mg/kg							
SampType: CCV	Run ID: TITRATOR_070718A	Analysis Date: 07/18/07 09:37 AM	Prep Date: 07/18/07							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	13.4	50.0	0							
Alkalinity, Carbonate (As CaCO3)	88.0	50.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0							
Alkalinity, Total (As CaCO3)	101	50.0	100.0	0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: WC_070717A

Sample ID:	Batch ID:	TestNo:	Units:
ICV-070717	CONDW-07/17/07	Agron 10-2.3	µmhos/cm
SampType: ICV	Run ID: WC_070717A	Analysis Date: 07/17/07 11:20 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Specific Conductance	12900	10.0	12880
		Ref Val	%REC
		0	100
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
			Qual
Sample ID: MBLK-070717	Batch ID: CONDW-07/17/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: MBLK	Run ID: WC_070717A	Analysis Date: 07/17/07 11:20 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Specific Conductance	ND	10.0	
Sample ID: LCS-070717	Batch ID: CONDW-07/17/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: LCS	Run ID: WC_070717A	Analysis Date: 07/17/07 11:20 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Specific Conductance	1350	10.0	1413
		Ref Val	%REC
		0	95.7
		LowLimit	HighLimit
		91	107
		%RPD	RPD Limit
			Qual
Sample ID: 0707084-01A DUP	Batch ID: CONDW-07/17/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: DUP	Run ID: WC_070717A	Analysis Date: 07/17/07 11:20 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Specific Conductance	3820	10.0	0
		Ref Val	%REC
		3980	
		LowLimit	HighLimit
		%RPD	RPD Limit
		4.10	25
			Qual
Sample ID: CCV-070717	Batch ID: CONDW-07/17/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: CCV	Run ID: WC_070717A	Analysis Date: 07/17/07 11:20 AM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Specific Conductance	12800	10.0	12880
		Ref Val	%REC
		0	99.6
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
			Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707084
 Project: RRC-Petronila Creek Groundwater Investigation

MQL SUMMARY REPORT

TestNo: E300	MDL	MQL	Magnesium	0.100	0.100
Analyte	mg/L	mg/L	Potassium	0.100	0.100
			Sodium	0.100	0.100
Bromide	0.300	1.00			
Chloride	0.300	1.00			
Nitrate-N	0.100	0.500	TestNo: Agron 10-2.3	MDL	MQL
Sulfate	1.00	3.00	Analyte	µmhos/cm	µmhos/cm
			Specific Conductance	10.0	10.0
TestNo: E310.1	MDL	MQL			
Analyte	mg/L	mg/L			
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0			
Alkalinity, Carbonate (As CaCO3)	10.0	20.0			
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0			
Alkalinity, Total (As CaCO3)	10.0	20.0			
TestNo: E310.1	MDL	MQL			
Analyte	mg/kg	mg/kg			
Alkalinity, Bicarbonate (As CaCO3)	50.0	50.0			
Alkalinity, Carbonate (As CaCO3)	50.0	50.0			
Alkalinity, Hydroxide (As CaCO3)	50.0	50.0			
Alkalinity, Total (As CaCO3)	50.0	50.0			
TestNo: SW9056	MDL	MQL			
Analyte	mg/Kg	mg/Kg			
Bromide	5.00	5.00			
Chloride	5.00	5.00			
Nitrate-N	5.00	5.00			
Sulfate	10.0	10.0			
TestNo: SW6020	MDL	MQL			
Analyte	mg/Kg	mg/Kg			
Barium	0.500	2.00			
Calcium	12.5	12.5			
Iron	12.5	12.5			
Magnesium	12.5	12.5			
Potassium	12.5	12.5			
Sodium	12.5	12.5			
TestNo: SW6020	MDL	MQL			
Analyte	mg/L	mg/L			
Barium	0.00300	0.0100			
Calcium	0.100	0.100			
Iron	0.0500	0.100			

Qualifiers:
 MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



July 26, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0707095

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek Groundwater Investigation

Dear Steve Miller:

DHL Analytical received 6 sample(s) on 7/17/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-06-TX



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2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

No 34397
CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 505 E. Huntland Dr. Ste 200 Austin, TX 78752
PHONE: 512-329-6030 FAX: 512-329-8750
DATA REPORTED TO: Steve Miller
ADDITIONAL REPORT COPIES TO:

DATE: 7/14/07 PAGE 1 OF 1
PO #: _____ DHL WORK ORDER #: 0707095
PROJECT LOCATION OR NAME: RR- Petronila Creek Groundwater Investigation
CLIENT PROJECT #: 129161-0002-0000 COLLECTOR: Matt Weber

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION					ANALYSES	FIELD NOTES
							HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE	UNPRESERVED		
P-SB-20-7-8	01	7/14/07	0810	S	4oz	2				X		X X X X X	
P-SB-20-7-8-D	02	7/14/07	0810	S	4oz	2				X		X X X X X	
P-SB-20-10-12	03	7/14/07	0815	S	4oz	6				X		X X X X X	M5/MJD
P-SB-22-9-10	04	7/14/07	1240	S	4oz	2				X		X X X X X	1 container broken
P-SB-22-10-12	05	7/14/07	1215	S	4oz	2				X		X X X X X	
P-EB-S-07-14-07-1	06	7/14/07	1500	W	250ml Swirl	3	X			X		X X X X X	

TOTAL

RELINQUISHED BY: (Signature) <u>[Signature]</u>	DATE/TIME <u>7/17/07 1035</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	TURN AROUND TIME RUSH <input type="checkbox"/> CALL FIRST 1 DAY <input type="checkbox"/> CALL FIRST 2 DAY <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	LABORATORY USE ONLY: RECEIVING TEMP <u>5.3°C</u> THERM #: <u>57</u> CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED <input type="checkbox"/> CARRIER BILL # _____ <input type="checkbox"/> APC DELIVERY <input checked="" type="checkbox"/> HAND DELIVERED
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)		

DHL DISPOSAL @ \$5.00 each Return

Laboratory Data Package Signature Page

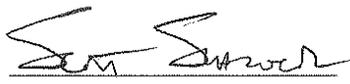
This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

7-26-7
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: <u>RRC-Petronila Creek Groundwater</u>	Date: <u>7/26/07</u>
Reviewer Name: <u>Laura Flowers</u> <u>Investigation</u>	Laboratory Work Order: <u>0707095</u>
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		✓			R1-01
		2) Were all departures from standard conditions described in an exception report?					
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?				✓	
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?				✓	
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?				✓	
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?				✓	R5-04
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?		✓			R8-03
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		✓			R10-01
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: <i>RRC-Petronila Creek Groundwater</i>		Date: <i>7/20/07</i>					
Reviewer Name: <i>Laura Flowers</i>		<i>Investigator</i>	Laboratory Work Order: <i>0707095</i>				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			S9-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 7/17/2007

Work Order Number 0707095

Received by: DU

Checklist completed by: [Signature] 7.17.07
Signature Date

Reviewed by: [Initials] 7/17/07
Initials Date

Carrier name: Hand Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? NO Checked by DU

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: Sample -04 [P-SB-22-9-10] : 1 container
Arrived broken

Corrective Action sufficient amount of sample to run analyses
on remaining jar

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707095

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E310.1 - Alkalinity
Method SW9056/E300 - Anions Analysis
Method AGRON 10-2.3 - Electrical Conductance in Soil
Method SW9045C - pH of Solid (Corrosivity)
Method D2216 - Percent Moisture (Parameter Not NELAC Certified)

Exception Report R1-01

Samples were received and log-in performed on 7/17/07. A total of 6 samples were received. One of the two jars for sample P-SB-22-9-10 arrived broken. The corrective action taken was to perform all the analyses using the one intact sample jar.

Exception Report R5-04

For Metals analysis, Calcium was detected above the reporting limit in the method blank (MB-26585). The Calcium concentration in all the samples was more than 10x the concentration in the method blank and the Equipment Blank was non-detect. No further corrective actions were taken and no sample results were adversely affected.

Exception Report R7-03

For Metals analysis, the recoveries of the matrix spikes (0707089-01A MS and 0707095-03B MS) and matrix spike duplicates (0707089-01A MSD and 0707095-03B MSD) were out of control limits for some analytes due to matrix interference. These are flagged accordingly in the QC summary report. One of the reference samples selected for the matrix spikes and matrix spike duplicates was from this work order (0707095-03B), while the other reference sample was not from this work order (0707089-01A). The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Anions analysis, the recoveries of the matrix spike (0707095-03AMS) and matrix spike duplicate (0707095-03AMSD) were below control limits for Nitrate-N. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

Exception Report R8-03

For Anions analysis, the RPD of the sample duplicate (0707095-03A DUP) was above control limits for Bromide. This is flagged accordingly in the QC summary report. No further corrective actions were taken.

Exception Report R10-01

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707095

CASE NARRATIVE

For Anions analysis, samples P-SB-22-9-10 and P-SB-22-10-12 were analyzed at 2x dilutions due to the silt present in the samples.

Exception Report S9-01

For Metals analysis, the RPD of the serial dilution (0707089-01A SD) was above control limits for Magnesium, Potassium, and Sodium. These are flagged accordingly in the QC summary report. The post digestion spike was within control limits for these analytes except for Sodium due to the concentration of NaOH in the reference sample that was not from this work order. No further corrective actions were taken.

For Metals analysis, the recovery of the post digestion spike (0707089-01A PDS) was below control limits for Calcium and Sodium. These are flagged accordingly in the QC summary report. The serial dilution was within control limits for Calcium, but not Sodium due to the concentration of NaOH in the reference sample that was not from this work order. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek Groundwater Investigation
Lab Order: 0707095

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0707095-01	P-SB-20-7-8		07/14/07 08:10 AM	07/17/07
0707095-02	P-SB-20-7-8-D		07/14/07 08:10 AM	07/17/07
0707095-03	P-SB-20-10-12		07/14/07 08:15 AM	07/17/07
0707095-04	P-SB-22-9-10		07/14/07 12:40 PM	07/17/07
0707095-05	P-SB-22-10-12		07/14/07 12:45 PM	07/17/07
0707095-06	P-EB-S-07-14-07-1		07/14/07 01:00 PM	07/17/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707095

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0707095-01A	P-SB-20-7-8	07/14/07 08:10 AM	Soil	USDA 60	1:5 Water Extract	07/18/07 09:36 AM	26573
	P-SB-20-7-8	07/14/07 08:10 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-20-7-8	07/14/07 08:10 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-20-7-8	07/14/07 08:10 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/18/07	PH_S-07/18/07
	P-SB-20-7-8	07/14/07 08:10 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/18/07	CONDW-07/18/07
0707095-01B	P-SB-20-7-8	07/14/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-7-8	07/14/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-7-8	07/14/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-7-8	07/14/07 08:10 AM	Soil	D2216	Percent Moisture	07/20/07 04:35 PM	PMOIST_070723A
0707095-02A	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	USDA 60	1:5 Water Extract	07/18/07 09:36 AM	26573
	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/18/07	PH_S-07/18/07
	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/18/07	CONDW-07/18/07
0707095-02B	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-7-8-D	07/14/07 08:10 AM	Soil	D2216	Percent Moisture	07/20/07 04:35 PM	PMOIST_070723A
0707095-03A	P-SB-20-10-12	07/14/07 08:15 AM	Soil	USDA 60	1:5 Water Extract	07/18/07 09:36 AM	26573
	P-SB-20-10-12	07/14/07 08:15 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-20-10-12	07/14/07 08:15 AM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-20-10-12	07/14/07 08:15 AM	Soil	SW9045C	pH of Solid (Corrosivity)	07/18/07	PH_S-07/18/07
	P-SB-20-10-12	07/14/07 08:15 AM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/18/07	CONDW-07/18/07
0707095-03B	P-SB-20-10-12	07/14/07 08:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-10-12	07/14/07 08:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-10-12	07/14/07 08:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-20-10-12	07/14/07 08:15 AM	Soil	D2216	Percent Moisture	07/20/07 04:35 PM	PMOIST_070723A
0707095-04A	P-SB-22-9-10	07/14/07 12:40 PM	Soil	USDA 60	1:5 Water Extract	07/18/07 09:36 AM	26573
	P-SB-22-9-10	07/14/07 12:40 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707095

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-SB-22-9-10	07/14/07 12:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-22-9-10	07/14/07 12:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-22-9-10	07/14/07 12:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-22-9-10	07/14/07 12:40 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/18/07	PH_S-07/18/07
	P-SB-22-9-10	07/14/07 12:40 PM	Soil	D2216	Percent Moisture	07/20/07 04:35 PM	PMOIST_070723A
	P-SB-22-9-10	07/14/07 12:40 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/18/07	CONDW-07/18/07
0707095-05A	P-SB-22-10-12	07/14/07 12:45 PM	Soil	USDA 60	1:5 Water Extract	07/18/07 09:36 AM	26573
	P-SB-22-10-12	07/14/07 12:45 PM	Soil	SW9056	Anion Prep	07/18/07 02:16 PM	26582
	P-SB-22-10-12	07/14/07 12:45 PM	Soil	SW9045C	pH of Solid (Corrosivity)	07/18/07	PH_S-07/18/07
	P-SB-22-10-12	07/14/07 12:45 PM	Soil	Agron 10-2.3	Electrical Conductance in Soil	07/18/07	CONDW-07/18/07
0707095-05B	P-SB-22-10-12	07/14/07 12:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-22-10-12	07/14/07 12:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-22-10-12	07/14/07 12:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	07/18/07 02:41 PM	26585
	P-SB-22-10-12	07/14/07 12:45 PM	Soil	D2216	Percent Moisture	07/20/07 04:35 PM	PMOIST_070723A
0707095-06A	P-EB-S-07-14-07-1	07/14/07 01:00 PM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	07/18/07 09:00 AM	26547
0707095-06B	P-EB-S-07-14-07-1	07/14/07 01:00 PM	Equipment Blank	E310.1	Alkalinity	07/17/07 01:19 PM	R32626
0707095-06C	P-EB-S-07-14-07-1	07/14/07 01:00 PM	Equipment Blank	E300	Anions by IC method - Water	07/17/07	R32627

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707095

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0707095-01A	P-SB-20-7-8	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 02:09 PM	IC2_070720A
	P-SB-20-7-8	Soil	SW9056	Anions by IC method - Soil	26582	20	07/20/07 03:57 PM	IC2_070720A
	P-SB-20-7-8	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/18/07	1	07/18/07 11:20 AM	WC_070718A
	P-SB-20-7-8	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/18/07	1	07/18/07 03:00 PM	PH_070718A
	P-SB-20-7-8	Soil	E310.1	Soluble Alkalinity of Soil	26573	1	07/19/07 10:43 AM	TITRATOR_070719A
0707095-01B	P-SB-20-7-8	Soil	D2216	Percent Moisture	PMOIST_070723A	1	07/23/07	PMOIST_070723A
	P-SB-20-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	20	07/23/07 12:57 PM	ICP-MS_070723B
	P-SB-20-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	50	07/24/07 10:31 PM	ICP-MS_070724A
	P-SB-20-7-8	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	50	07/25/07 12:38 PM	ICP-MS3_070725A
0707095-02A	P-SB-20-7-8-D	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 02:24 PM	IC2_070720A
	P-SB-20-7-8-D	Soil	SW9056	Anions by IC method - Soil	26582	20	07/20/07 04:12 PM	IC2_070720A
	P-SB-20-7-8-D	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/18/07	1	07/18/07 11:20 AM	WC_070718A
	P-SB-20-7-8-D	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/18/07	1	07/18/07 03:00 PM	PH_070718A
	P-SB-20-7-8-D	Soil	E310.1	Soluble Alkalinity of Soil	26573	1	07/19/07 10:47 AM	TITRATOR_070719A
0707095-02B	P-SB-20-7-8-D	Soil	D2216	Percent Moisture	PMOIST_070723A	1	07/23/07	PMOIST_070723A
	P-SB-20-7-8-D	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	20	07/23/07 01:01 PM	ICP-MS_070723B
	P-SB-20-7-8-D	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	50	07/24/07 10:35 PM	ICP-MS_070724A
	P-SB-20-7-8-D	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	50	07/25/07 12:42 PM	ICP-MS3_070725A
0707095-03A	P-SB-20-10-12	Soil	SW9056	Anions by IC method - Soil	26582	1	07/20/07 02:39 PM	IC2_070720A
	P-SB-20-10-12	Soil	SW9056	Anions by IC method - Soil	26582	10	07/20/07 04:27 PM	IC2_070720A
	P-SB-20-10-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/18/07	1	07/18/07 11:20 AM	WC_070718A
	P-SB-20-10-12	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/18/07	1	07/18/07 03:00 PM	PH_070718A
	P-SB-20-10-12	Soil	E310.1	Soluble Alkalinity of Soil	26573	1	07/19/07 10:51 AM	TITRATOR_070719A
0707095-03B	P-SB-20-10-12	Soil	D2216	Percent Moisture	PMOIST_070723A	1	07/23/07	PMOIST_070723A
	P-SB-20-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	20	07/23/07 01:06 PM	ICP-MS_070723B
	P-SB-20-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	100	07/24/07 10:47 PM	ICP-MS_070724A
	P-SB-20-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	100	07/25/07 12:55 PM	ICP-MS3_070725A
0707095-04A	P-SB-22-9-10	Soil	SW9056	Anions by IC method - Soil	26582	2	07/20/07 05:40 PM	IC2_070720A
	P-SB-22-9-10	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/18/07	1	07/18/07 11:20 AM	WC_070718A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek Groundwater Investigation
 Lab Order: 0707095

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-SB-22-9-10	Soil	D2216	Percent Moisture	PMOIST_070723A	1	07/23/07	PMOIST_070723A
	P-SB-22-9-10	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/18/07	1	07/18/07 03:00 PM	PH_070718A
	P-SB-22-9-10	Soil	E310.1	Soluble Alkalinity of Soil	26573	1	07/19/07 11:01 AM	TITRATOR_070719A
	P-SB-22-9-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	20	07/23/07 01:50 PM	ICP-MS_070723B
	P-SB-22-9-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	100	07/24/07 10:39 PM	ICP-MS_070724A
	P-SB-22-9-10	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	100	07/25/07 12:46 PM	ICP-MS3_070725A
0707095-05A	P-SB-22-10-12	Soil	SW9056	Anions by IC method - Soil	26582	2	07/20/07 05:55 PM	IC2_070720A
	P-SB-22-10-12	Soil	Agron 10-2.3	Electrical Conductance in Soil	CONDW-07/18/07	1	07/18/07 11:20 AM	WC_070718A
	P-SB-22-10-12	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-07/18/07	1	07/18/07 03:00 PM	PH_070718A
	P-SB-22-10-12	Soil	E310.1	Soluble Alkalinity of Soil	26573	1	07/19/07 11:11 AM	TITRATOR_070719A
0707095-05B	P-SB-22-10-12	Soil	D2216	Percent Moisture	PMOIST_070723A	1	07/23/07	PMOIST_070723A
	P-SB-22-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	20	07/23/07 01:54 PM	ICP-MS_070723B
	P-SB-22-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	100	07/24/07 10:43 PM	ICP-MS_070724A
	P-SB-22-10-12	Soil	SW6020	Trace Metals: ICP-MS - Solid	26585	100	07/25/07 12:50 PM	ICP-MS3_070725A
0707095-06A	P-EB-S-07-14-07-1	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	26547	1	07/20/07 02:02 PM	ICP-MS_070720A
0707095-06B	P-EB-S-07-14-07-1	Equipment Blank	E310.1	Alkalinity	R32626	1	07/17/07 01:19 PM	TITRATOR_070717A
0707095-06C	P-EB-S-07-14-07-1	Equipment Blank	E300	Anions by IC method - Water	R32627	1	07/17/07 02:15 PM	IC2_070717A

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-20-7-8
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707095-01
Project No:	128161.0000.0000	Collection Date:	07/14/07 08:10 AM
Lab Order:	0707095	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	179	2.32	9.29		mg/Kg-dry	20	07/23/07 12:57 PM
Calcium	20700	145	145		mg/Kg-dry	50	07/25/07 12:38 PM
Iron	18100	145	145		mg/Kg-dry	50	07/24/07 10:31 PM
Magnesium	6420	58.1	58.1		mg/Kg-dry	20	07/23/07 12:57 PM
Potassium	5820	58.1	58.1		mg/Kg-dry	20	07/23/07 12:57 PM
Sodium	7400	58.1	58.1		mg/Kg-dry	20	07/23/07 12:57 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	213	62.7	62.7		mg/kg-dry	1	07/19/07 10:43 AM
Alkalinity, Carbonate (As CaCO3)	134	62.7	62.7		mg/kg-dry	1	07/19/07 10:43 AM
Alkalinity, Hydroxide (As CaCO3)	ND	62.7	62.7		mg/kg-dry	1	07/19/07 10:43 AM
Alkalinity, Total (As CaCO3)	347	62.7	62.7		mg/kg-dry	1	07/19/07 10:43 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	10.3	6.19	6.19		mg/Kg-dry	1	07/20/07 02:09 PM
Chloride	4720	124	124		mg/Kg-dry	20	07/20/07 03:57 PM
Nitrate-N	ND	6.19	6.19		mg/Kg-dry	1	07/20/07 02:09 PM
Sulfate	3330	248	248		mg/Kg-dry	20	07/20/07 03:57 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.00	0	0		pH Units	1	07/18/07 03:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	21.0	0	0	N	WT%	1	07/23/07
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	9010	10.0	10.0		µmhos/cm	1	07/18/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-20-7-8-D
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707095-02
Project No:	128161.0000.0000	Collection Date:	07/14/07 08:10 AM
Lab Order:	0707095	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	216	2.52	10.1		mg/Kg-dry	20	07/23/07 01:01 PM
Calcium	22200	157	157		mg/Kg-dry	50	07/25/07 12:42 PM
Iron	18000	157	157		mg/Kg-dry	50	07/24/07 10:35 PM
Magnesium	6320	63.0	63.0		mg/Kg-dry	20	07/23/07 01:01 PM
Potassium	5640	63.0	63.0		mg/Kg-dry	20	07/23/07 01:01 PM
Sodium	7290	63.0	63.0		mg/Kg-dry	20	07/23/07 01:01 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	209	63.0	63.0		mg/kg-dry	1	07/19/07 10:47 AM
Alkalinity, Carbonate (As CaCO3)	110	63.0	63.0		mg/kg-dry	1	07/19/07 10:47 AM
Alkalinity, Hydroxide (As CaCO3)	ND	63.0	63.0		mg/kg-dry	1	07/19/07 10:47 AM
Alkalinity, Total (As CaCO3)	319	63.0	63.0		mg/kg-dry	1	07/19/07 10:47 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	11.3	6.31	6.31		mg/Kg-dry	1	07/20/07 02:24 PM
Chloride	5190	126	126		mg/Kg-dry	20	07/20/07 04:12 PM
Nitrate-N	ND	6.31	6.31		mg/Kg-dry	1	07/20/07 02:24 PM
Sulfate	3910	252	252		mg/Kg-dry	20	07/20/07 04:12 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	7.81	0	0		pH Units	1	07/18/07 03:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	21.4	0	0	N	WT%	1	07/23/07
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	9560	10.0	10.0		µmhos/cm	1	07/18/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-20-10-12
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707095-03
Project No:	128161.0000.0000	Collection Date:	07/14/07 08:15 AM
Lab Order:	0707095	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	138	2.36	9.44		mg/Kg-dry	20	07/23/07 01:06 PM
Calcium	31400	295	295		mg/Kg-dry	100	07/25/07 12:55 PM
Iron	18700	295	295		mg/Kg-dry	100	07/24/07 10:47 PM
Magnesium	6660	59.0	59.0		mg/Kg-dry	20	07/23/07 01:06 PM
Potassium	5990	59.0	59.0		mg/Kg-dry	20	07/23/07 01:06 PM
Sodium	6060	59.0	59.0		mg/Kg-dry	20	07/23/07 01:06 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	267	61.3	61.3		mg/kg-dry	1	07/19/07 10:51 AM
Alkalinity, Carbonate (As CaCO3)	221	61.3	61.3		mg/kg-dry	1	07/19/07 10:51 AM
Alkalinity, Hydroxide (As CaCO3)	ND	61.3	61.3		mg/kg-dry	1	07/19/07 10:51 AM
Alkalinity, Total (As CaCO3)	488	61.3	61.3		mg/kg-dry	1	07/19/07 10:51 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	6.11	6.11		mg/Kg-dry	1	07/20/07 02:39 PM
Chloride	2590	61.1	61.1		mg/Kg-dry	10	07/20/07 04:27 PM
Nitrate-N	ND	6.11	6.11		mg/Kg-dry	1	07/20/07 02:39 PM
Sulfate	1320	122	122		mg/Kg-dry	10	07/20/07 04:27 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.16	0	0		pH Units	1	07/18/07 03:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	19.3	0	0	N	WT%	1	07/23/07
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	5010	10.0	10.0		µmhos/cm	1	07/18/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-22-9-10
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707095-04
Project No:	128161.0000.0000	Collection Date:	07/14/07 12:40 PM
Lab Order:	0707095	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	140	2.09	8.35		mg/Kg-dry	20	07/23/07 01:50 PM
Calcium	34000	261	261		mg/Kg-dry	100	07/25/07 12:46 PM
Iron	14300	261	261		mg/Kg-dry	100	07/24/07 10:39 PM
Magnesium	4750	52.2	52.2		mg/Kg-dry	20	07/23/07 01:50 PM
Potassium	4520	52.2	52.2		mg/Kg-dry	20	07/23/07 01:50 PM
Sodium	996	52.2	52.2		mg/Kg-dry	20	07/23/07 01:50 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	330	59.8	59.8		mg/kg-dry	1	07/19/07 11:01 AM
Alkalinity, Carbonate (As CaCO3)	273	59.8	59.8		mg/kg-dry	1	07/19/07 11:01 AM
Alkalinity, Hydroxide (As CaCO3)	ND	59.8	59.8		mg/kg-dry	1	07/19/07 11:01 AM
Alkalinity, Total (As CaCO3)	603	59.8	59.8		mg/kg-dry	1	07/19/07 11:01 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	11.8	11.8		mg/Kg-dry	2	07/20/07 05:40 PM
Chloride	22.7	11.8	11.8		mg/Kg-dry	2	07/20/07 05:40 PM
Nitrate-N	ND	11.8	11.8		mg/Kg-dry	2	07/20/07 05:40 PM
Sulfate	449	23.7	23.7		mg/Kg-dry	2	07/20/07 05:40 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.75	0	0		pH Units	1	07/18/07 03:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	16.6	0	0	N	WT%	1	07/23/07
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	836	10.0	10.0		µmhos/cm	1	07/18/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 07/26/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-SB-22-10-12
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707095-05
Project No:	128161.0000.0000	Collection Date:	07/14/07 12:45 PM
Lab Order:	0707095	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020		Analyst: KDT			
Barium	187	2.39	9.54		mg/Kg-dry	20	07/23/07 01:54 PM
Calcium	34200	298	298		mg/Kg-dry	100	07/25/07 12:50 PM
Iron	22600	298	298		mg/Kg-dry	100	07/24/07 10:43 PM
Magnesium	9080	59.7	59.7		mg/Kg-dry	20	07/23/07 01:54 PM
Potassium	7250	59.7	59.7		mg/Kg-dry	20	07/23/07 01:54 PM
Sodium	2060	59.7	59.7		mg/Kg-dry	20	07/23/07 01:54 PM
Soluble Alkalinity of Soil		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	472	62.9	62.9		mg/kg-dry	1	07/19/07 11:11 AM
Alkalinity, Carbonate (As CaCO3)	385	62.9	62.9		mg/kg-dry	1	07/19/07 11:11 AM
Alkalinity, Hydroxide (As CaCO3)	ND	62.9	62.9		mg/kg-dry	1	07/19/07 11:11 AM
Alkalinity, Total (As CaCO3)	857	62.9	62.9		mg/kg-dry	1	07/19/07 11:11 AM
Anions by IC method - Soil		SW9056		Analyst: JBC			
Bromide	ND	12.5	12.5		mg/Kg-dry	2	07/20/07 05:55 PM
Chloride	39.9	12.5	12.5		mg/Kg-dry	2	07/20/07 05:55 PM
Nitrate-N	ND	12.5	12.5		mg/Kg-dry	2	07/20/07 05:55 PM
Sulfate	370	24.9	24.9		mg/Kg-dry	2	07/20/07 05:55 PM
pH of Solid (Corrosivity)		SW9045C		Analyst: JBC			
pH	8.74	0	0		pH Units	1	07/18/07 03:00 PM
Percent Moisture		D2216		Analyst: TPO			
Percent Moisture	20.9	0	0	N	WT%	1	07/23/07
Electrical Conductance in Soil		Agron 10-2.3		Analyst: JBC			
Specific Conductance	755	10.0	10.0		µmhos/cm	1	07/18/07 11:20 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-S-07-14-07-1
Project:	RRC-Petronila Creek Groundwater Investigation	Lab ID:	0707095-06
Project No:	128161.0000.0000	Collection Date:	07/14/07 01:00 PM
Lab Order:	0707095	Matrix:	Equipment Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	ND	0.00300	0.0100		mg/L	1	07/20/07 02:02 PM
Calcium	ND	0.100	0.100		mg/L	1	07/20/07 02:02 PM
Iron	ND	0.0500	0.100		mg/L	1	07/20/07 02:02 PM
Magnesium	ND	0.100	0.100		mg/L	1	07/20/07 02:02 PM
Potassium	ND	0.100	0.100		mg/L	1	07/20/07 02:02 PM
Sodium	0.226	0.100	0.100		mg/L	1	07/20/07 02:02 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	ND	0.300	1.00		mg/L	1	07/17/07 02:15 PM
Chloride	ND	0.300	1.00		mg/L	1	07/17/07 02:15 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	07/17/07 02:15 PM
Sulfate	ND	1.00	3.00		mg/L	1	07/17/07 02:15 PM
Alkalinity		E310.1		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:19 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:19 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:19 PM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	07/17/07 01:19 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070720A

Sample ID:	MB-26547	Batch ID:	26547	TestNo:	SW6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 12:54 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.100								
Iron	ND	0.100								
Magnesium	ND	0.100								
Potassium	ND	0.100								
Sodium	ND	0.100								

Sample ID:	LCS-26547	Batch ID:	26547	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 01:06 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.189	0.0100	0.200	0	94.4	80	120			
Calcium	4.74	0.100	5.00	0	94.8	80	120			
Iron	4.69	0.100	5.00	0	93.7	80	120			
Magnesium	4.70	0.100	5.00	0	94.0	80	120			
Potassium	4.73	0.100	5.00	0	94.5	80	120			
Sodium	4.66	0.100	5.00	0	93.3	80	120			

Sample ID:	LCSD-26547	Batch ID:	26547	TestNo:	SW6020	Units:	mg/L			
SampType:	LCSD	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 01:10 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.191	0.0100	0.200	0	95.5	80	120	1.11	15	
Calcium	4.75	0.100	5.00	0	95.0	80	120	0.232	15	
Iron	4.65	0.100	5.00	0	92.9	80	120	0.857	15	
Magnesium	4.76	0.100	5.00	0	95.3	80	120	1.37	15	
Potassium	4.76	0.100	5.00	0	95.2	80	120	0.675	15	
Sodium	4.77	0.100	5.00	0	95.3	80	120	2.14	15	

Sample ID:	0707089-01A SD	Batch ID:	26547	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 01:18 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.562	0.500	0	0.552				1.94	10	
Calcium	727	5.00	0	673				7.77	10	
Iron	0	5.00	0	1.27				0	10	
Magnesium	10.1	5.00	0	7.35				31.6	10	R
Potassium	7.06	5.00	0	5.00				34.1	10	R
Sodium	1390	5.00	0	0				200	10	R

Sample ID:	0707089-01A MS	Batch ID:	26547	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 01:22 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	2.56	0.100	2.00	0.552	100	80	120			
Calcium	793	1.00	50.0	673	241	80	120			S
Iron	47.6	1.00	50.0	1.27	92.6	80	120			
Magnesium	55.1	1.00	50.0	7.35	95.6	80	120			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070720A

Potassium	54.7	1.00	50.0	5.00	99.4	80	120			
Sodium	0	1.00	50.0	0	0	80	120			S

Sample ID:	0707089-01A MSD	Batch ID:	26547	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 01:26 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	2.49	0.100	2.00	0.552	96.7	80	120	2.82	15	
Calcium	763	1.00	50.0	673	180	80	120	3.88	15	S
Iron	46.3	1.00	50.0	1.27	90.0	80	120	2.81	15	
Magnesium	54.0	1.00	50.0	7.35	93.3	80	120	2.05	15	
Potassium	53.5	1.00	50.0	5.00	97.0	80	120	2.22	15	
Sodium	0	1.00	50.0	0	0	80	120	0	15	S

Sample ID:	0707089-01A PDS	Batch ID:	26547	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 01:30 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	2.38	0.100	2.00	0.552	91.2	75	125			
Calcium	699	1.00	50.0	673	52.0	75	125			S
Iron	46.6	1.00	50.0	1.27	90.6	75	125			
Magnesium	49.7	1.00	50.0	7.35	84.7	75	125			
Potassium	50.2	1.00	50.0	5.00	90.5	75	125			
Sodium	0	1.00	50.0	0	0	75	125			S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070720A

Sample ID:	ICV1-070720	Batch ID:	R32697	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 12:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0971	0.0100	0.100	0	97.1	90	110			
Calcium	2.40	0.100	2.50	0	95.9	90	110			
Iron	2.43	0.100	2.50	0	97.4	90	110			
Magnesium	2.37	0.100	2.50	0	94.7	90	110			
Potassium	2.38	0.100	2.50	0	95.2	90	110			
Sodium	2.36	0.100	2.50	0	94.5	90	110			

Sample ID:	CCV1-070720	Batch ID:	R32697	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 01:38 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.194	0.0100	0.200	0	97.2	90	110			
Calcium	4.92	0.100	5.00	0	98.4	90	110			
Iron	4.93	0.100	5.00	0	98.5	90	110			
Magnesium	4.80	0.100	5.00	0	95.9	90	110			
Potassium	4.88	0.100	5.00	0	97.7	90	110			
Sodium	4.86	0.100	5.00	0	97.2	90	110			

Sample ID:	CCV2-070720	Batch ID:	R32697	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070720A	Analysis Date:	07/20/07 02:39 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.193	0.0100	0.200	0	96.5	90	110			
Calcium	4.85	0.100	5.00	0	97.0	90	110			
Iron	4.81	0.100	5.00	0	96.2	90	110			
Magnesium	4.82	0.100	5.00	0	96.4	90	110			
Potassium	4.74	0.100	5.00	0	94.9	90	110			
Sodium	4.81	0.100	5.00	0	96.2	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070723B

Sample ID:	MB-26585	Batch ID:	26585	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 12:45 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	2.00								
Calcium	35.2	12.5								
Iron	ND	12.5								
Magnesium	ND	12.5								
Potassium	ND	12.5								
Sodium	ND	12.5								

Sample ID:	LCS-26585	Batch ID:	26585	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 12:49 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	47.2	2.00	50.00	0	94.4	80	120			
Calcium	275	12.5	250.0	0	110	80	120			
Iron	254	12.5	250.0	0	102	80	120			
Magnesium	270	12.5	250.0	0	108	80	120			
Potassium	258	12.5	250.0	0	103	80	120			
Sodium	274	12.5	250.0	0	110	80	120			

Sample ID:	LCSD-26585	Batch ID:	26585	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCSD	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 12:53 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	47.7	2.00	50.00	0	95.4	80	120	1.11	25	
Calcium	289	12.5	250.0	0	116	80	120	5.05	25	
Iron	248	12.5	250.0	0	99.2	80	120	2.29	25	
Magnesium	262	12.5	250.0	0	105	80	120	3.38	25	
Potassium	261	12.5	250.0	0	104	80	120	1.25	25	
Sodium	268	12.5	250.0	0	107	80	120	2.03	25	

Sample ID:	0707095-03B SD	Batch ID:	26585	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	SD	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 01:10 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	138	47.2	0	138.1				0.0427	10	
Magnesium	6850	295	0	6659				2.79	10	
Potassium	6000	295	0	5986				0.315	10	
Sodium	6240	295	0	6058				2.97	10	

Sample ID:	0707095-03B MS	Batch ID:	26585	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 01:14 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	213	8.85	55.30	138.1	136	80	120			S
Magnesium	7380	55.3	276.5	6659	259	80	120			S
Potassium	6650	55.3	276.5	5986	242	80	120			S
Sodium	6630	55.3	276.5	6058	207	80	120			S

Sample ID:	0707095-03B MSD	Batch ID:	26585	TestNo:	SW6020	Units:	mg/Kg-dry
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Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070723B

SampType:	MSD	Run ID:	ICP-MS_070723B			Analysis Date:	07/23/07 01:18 PM		Prep Date:	07/18/07	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		214	8.77	54.81	138.1	138	80	120	0.400	25	S
Magnesium		7080	54.8	274.0	6659	153	80	120	4.12	25	S
Potassium		6410	54.8	274.0	5986	157	80	120	3.67	25	S
Sodium		6340	54.8	274.0	6058	102	80	120	4.52	25	

Sample ID:	0707095-03B PDS	Batch ID:	26585		TestNo:	SW6020		Units:	mg/Kg-dry		
SampType:	PDS	Run ID:	ICP-MS_070723B			Analysis Date:	07/23/07 01:22 PM		Prep Date:	07/18/07	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		357	9.44	235.9	138.1	92.6	75	125			
Magnesium		12300	59.0	5899	6659	95.3	75	125			
Potassium		11500	59.0	5899	5986	94.2	75	125			
Sodium		11800	59.0	5899	6058	96.8	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070723B

Sample ID:	ICV1-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 11:15 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0992	0.0100	0.100	0	99.2	90	110			
Calcium	2.40	0.100	2.50	0	96.1	90	110			
Iron	2.46	0.100	2.50	0	98.2	90	110			
Magnesium	2.42	0.100	2.50	0	96.6	90	110			
Potassium	2.40	0.100	2.50	0	95.9	90	110			
Sodium	2.41	0.100	2.50	0	96.4	90	110			

Sample ID:	CCV1-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 12:30 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.191	0.0100	0.200	0	95.7	90	110			
Calcium	4.76	0.100	5.00	0	95.3	90	110			
Iron	4.80	0.100	5.00	0	96.1	90	110			
Magnesium	5.04	0.100	5.00	0	101	90	110			
Potassium	4.87	0.100	5.00	0	97.3	90	110			
Sodium	5.04	0.100	5.00	0	101	90	110			

Sample ID:	CCV2-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 01:30 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.191	0.0100	0.200	0	95.7	90	110			
Calcium	4.72	0.100	5.00	0	94.4	90	110			
Iron	4.74	0.100	5.00	0	94.8	90	110			
Magnesium	5.08	0.100	5.00	0	102	90	110			
Potassium	4.92	0.100	5.00	0	98.3	90	110			
Sodium	5.09	0.100	5.00	0	102	90	110			

Sample ID:	CCV3-070723	Batch ID:	R32727	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070723B	Analysis Date:	07/23/07 02:36 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.193	0.0100	0.200	0	96.5	90	110			
Calcium	4.83	0.100	5.00	0	96.6	90	110			
Magnesium	5.17	0.100	5.00	0	103	90	110			
Potassium	4.92	0.100	5.00	0	98.4	90	110			
Sodium	5.10	0.100	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070724A

Sample ID:	Batch ID:	TestNo:	Units:								
SampType:	Run ID:	Analysis Date:	Prep Date:								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Iron	17900	1470	0	18750				4.80	10		
Sample ID: 0707095-03B MS	Batch ID: 26585	TestNo: SW6020	Units: mg/Kg-dry								
SampType: MS	Run ID: ICP-MS_070724A	Analysis Date: 07/24/07 10:55 PM	Prep Date: 07/18/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Iron	19200	276	276.5	18750	148	80	120			S	
Sample ID: 0707095-03B MSD	Batch ID: 26585	TestNo: SW6020	Units: mg/Kg-dry								
SampType: MSD	Run ID: ICP-MS_070724A	Analysis Date: 07/24/07 10:59 PM	Prep Date: 07/18/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Iron	19400	274	274.0	18750	236	80	120	1.22	25	S	
Sample ID: 0707095-03B PDS	Batch ID: 26585	TestNo: SW6020	Units: mg/Kg-dry								
SampType: PDS	Run ID: ICP-MS_070724A	Analysis Date: 07/24/07 11:03 PM	Prep Date: 07/18/07								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Iron	48400	295	29490	18750	101	75	125				

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_070724A

Sample ID:	ICV1-070724	Batch ID:	R32736	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS_070724A	Analysis Date:	07/24/07 05:20 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0982	0.0100	0.100	0	98.2	90	110			
Calcium	2.40	0.100	2.50	0	96.1	90	110			
Iron	2.58	0.100	2.50	0	103	90	110			
Magnesium	2.41	0.100	2.50	0	96.4	90	110			
Potassium	2.43	0.100	2.50	0	97.0	90	110			
Sodium	2.41	0.100	2.50	0	96.3	90	110			

Sample ID:	CCV4-070724	Batch ID:	R32736	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070724A	Analysis Date:	07/24/07 10:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.183	0.0100	0.200	0	91.6	90	110			
Calcium	4.54	0.100	5.00	0	90.7	90	110			
Iron	4.55	0.100	5.00	0	90.9	90	110			
Magnesium	4.59	0.100	5.00	0	91.9	90	110			

Sample ID:	CCV5-070724	Batch ID:	R32736	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS_070724A	Analysis Date:	07/24/07 11:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	4.50	0.100	5.00	0	90.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070725A

Sample ID:	Batch ID:	TestNo:	Units:								
SampType:	Run ID:	Analysis Date:	Prep Date:								
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
0707095-03B SD	26585	SW6020	mg/Kg-dry								
SD	ICP-MS3_070725A	07/25/07 12:59 PM	07/18/07								
Calcium	30900	1470	0	31420				1.72	10		
0707095-03B MS	26585	SW6020	mg/Kg-dry								
MS	ICP-MS3_070725A	07/25/07 01:03 PM	07/18/07								
Calcium	34900	276	276.5	31420	1260	80	120			S	
0707095-03B MSD	26585	SW6020	mg/Kg-dry								
MSD	ICP-MS3_070725A	07/25/07 01:07 PM	07/18/07								
Calcium	35700	274	274.0	31420	1560	80	120	2.25	25	S	
0707095-03B PDS	26585	SW6020	mg/Kg-dry								
PDS	ICP-MS3_070725A	07/25/07 01:12 PM	07/18/07								
Calcium	62500	295	29490	31420	105	75	125				

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070725A

Sample ID:	ICV1-070725	Batch ID:	R32747	TestNo:	SW6020	Units:	mg/L				
SampType:	ICV	Run ID:	ICP-MS3_070725A	Analysis Date:	07/25/07 12:13 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		2.50	0.100	2.50	0	100	90	110			

Sample ID:	CCV1-070725	Batch ID:	R32747	TestNo:	SW6020	Units:	mg/L				
SampType:	CCV	Run ID:	ICP-MS3_070725A	Analysis Date:	07/25/07 01:20 PM	Prep Date:					
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium		5.19	0.100	5.00	0	104	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070717A

Sample ID:	ICV-070717	Batch ID:	R32627	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_070717A	Analysis Date:	07/17/07 01:07 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	50.3	1.00	50.00	0	101	90	110			
Chloride	24.9	1.00	25.00	0	99.7	90	110			
Nitrate-N	12.7	0.500	12.50	0	101	90	110			
Sulfate	75.0	3.00	75.00	0	100	90	110			

Sample ID:	MB-070717	Batch ID:	R32627	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_070717A	Analysis Date:	07/17/07 01:28 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Nitrate-N	ND	0.500								
Sulfate	ND	3.00								

Sample ID:	LCS-070717	Batch ID:	R32627	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC2_070717A	Analysis Date:	07/17/07 01:43 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	0	101	90	110			
Chloride	9.99	1.00	10.00	0	99.9	90	110			
Nitrate-N	5.10	0.500	5.000	0	102	90	110			
Sulfate	30.0	3.00	30.00	0	99.8	90	110			

Sample ID:	LCSD-070717	Batch ID:	R32627	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC2_070717A	Analysis Date:	07/17/07 01:58 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.2	1.00	20.00	0	101	90	110	0.149	20	
Chloride	10.0	1.00	10.00	0	100	90	110	0.492	20	
Nitrate-N	5.10	0.500	5.000	0	102	90	110	0.0921	20	
Sulfate	29.9	3.00	30.00	0	99.7	90	110	0.121	20	

Sample ID:	0707095-06C MS	Batch ID:	R32627	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_070717A	Analysis Date:	07/17/07 02:40 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.9	1.00	20.00	0	99.6	90	110			
Chloride	9.91	1.00	10.00	0	99.1	90	110			
Nitrate-N	5.02	0.500	5.000	0	100	90	110			
Sulfate	29.5	3.00	30.00	0	98.3	90	110			

Sample ID:	0707095-06C MSD	Batch ID:	R32627	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_070717A	Analysis Date:	07/17/07 02:55 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.0	1.00	20.00	0	100	90	110	0.454	20	
Chloride	9.96	1.00	10.00	0	99.6	90	110	0.520	20	
Nitrate-N	5.05	0.500	5.000	0	101	90	110	0.677	20	
Sulfate	29.6	3.00	30.00	0	98.6	90	110	0.347	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070717A

Sample ID:	CCV1-070717	Batch ID:	R32627	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_070717A	Analysis Date:	07/17/07 03:09 PM	Prep Date:	07/17/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.6	1.00	20.00	0	103	90	110			
Chloride	10.2	1.00	10.00	0	102	90	110			
Nitrate-N	5.19	0.500	5.000	0	104	90	110			
Sulfate	30.5	3.00	30.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070720A

Sample ID:	MB-26582	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg			
SampType:	MBLK	Run ID:	IC2_070720A	Analysis Date:	07/20/07 10:12 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	5.00								
Chloride	ND	5.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID:	LCS-26582	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 10:27 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	101	5.00	100.0	0	101	80	120			
Chloride	50.4	5.00	50.00	0	101	80	120			
Nitrate-N	25.5	5.00	25.00	0	102	80	120			
Sulfate	150	10.0	150.0	0	100	80	120			

Sample ID:	LCS-26582	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg			
SampType:	LCS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 10:41 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	101	5.00	100.0	0	101	80	120	0.236	20	
Chloride	50.5	5.00	50.00	0	101	80	120	0.205	20	
Nitrate-N	25.6	5.00	25.00	0	103	80	120	0.590	20	
Sulfate	151	10.0	150.0	0	101	80	120	0.587	20	

Sample ID:	0707095-03AMS	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 02:53 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	135	6.11	122.2	0	110	80	120			
Nitrate-N	32.2	6.11	122.2	0	26.3	80	120			S

Sample ID:	0707095-03AMSD	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IC2_070720A	Analysis Date:	07/20/07 03:07 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	134	6.11	122.2	0	110	80	120	0.503	20	
Nitrate-N	32.0	6.11	122.2	0	26.2	80	120	0.640	20	S

Sample ID:	0707095-03AMS	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IC2_070720A	Analysis Date:	07/20/07 04:41 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	2150	61.1	610.8	1557	96.4	80	120			
Sulfate	2640	122	1832	790.9	101	80	120			

Sample ID:	0707095-03AMSD	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IC2_070720A	Analysis Date:	07/20/07 04:56 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	2140	61.1	610.8	1557	96.2	80	120	0.0683	20	
Sulfate	2620	122	1832	790.9	99.9	80	120	0.648	20	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070720A

Sample ID:	0707095-03A DUP	Batch ID:	26582	TestNo:	SW9056	Units:	mg/Kg-dry			
SampType:	DUP	Run ID:	IC2_070720A	Analysis Date:	07/20/07 05:11 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	6.15	6.11	0	0				200	25	R
Nitrate-N	0	6.11	0	0				0	25	
Chloride	2650	61.1	0	2595				1.98	25	
Sulfate	1630	122	0	1318				21.0	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_070720A

Sample ID:	ICV-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	ICV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 09:44 AM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	51.0	5.00	50.00	0	102	90	110			
Chloride	25.2	5.00	25.00	0	101	90	110			
Nitrate-N	12.8	5.00	12.50	0	102	90	110			
Sulfate	76.2	10.0	75.00	0	102	90	110			

Sample ID:	CCV1-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 12:39 PM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	5.00	20.00	0	102	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.12	5.00	5.000	0	102	90	110			
Sulfate	30.2	10.0	30.00	0	101	90	110			

Sample ID:	CCV2-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 03:22 PM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.9	5.00	20.00	0	104	90	110			
Chloride	10.4	5.00	10.00	0	104	90	110			
Nitrate-N	5.25	5.00	5.000	0	105	90	110			
Sulfate	31.0	10.0	30.00	0	103	90	110			

Sample ID:	CCV3-070720	Batch ID:	R32687	TestNo:	SW9056	Units:	mg/Kg			
SampType:	CCV	Run ID:	IC2_070720A	Analysis Date:	07/20/07 06:09 PM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	5.00	20.00	0	102	90	110			
Chloride	10.1	5.00	10.00	0	101	90	110			
Nitrate-N	5.13	5.00	5.000	0	103	90	110			
Sulfate	30.2	10.0	30.00	0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: PH_070718A

Sample ID:	ICV	Batch ID:	PH_S-07/18/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	ICV	Run ID:	PH_070718A	Analysis Date:	07/18/07 03:00 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	10.0	0	10.00	0	100	99	101			
Sample ID:	0707095-03A DUP	Batch ID:	PH_S-07/18/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	DUP	Run ID:	PH_070718A	Analysis Date:	07/18/07 03:00 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	8.05	0	0	8.158				1.36	15	
Sample ID:	CCV-070718	Batch ID:	PH_S-07/18/07	TestNo:	SW9045C	Units:	pH Units			
SampType:	CCV	Run ID:	PH_070718A	Analysis Date:	07/18/07 03:00 PM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.06	0	7.000	0	101	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_070723A

Sample ID:	0707123-02B DUP	Batch ID:	PMOIST_070723A	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_070723A	Analysis Date:	07/23/07 12:00 AM	Prep Date:	07/20/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	22.5	0	0	22.42				0.186	30	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_070717A

Sample ID: ICV-070717	Batch ID: R32626	TestNo: E310.1	Units: mg/L
SampType: ICV	Run ID: TITRATOR_070717A	Analysis Date: 07/17/07 12:53 PM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	9.36	20.0	0
Alkalinity, Carbonate (As CaCO3)	92.2	20.0	0
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0
Alkalinity, Total (As CaCO3)	102	20.0	100.0
		0	102
		98	102

Sample ID: MBLK-070717	Batch ID: R32626	TestNo: E310.1	Units: mg/L
SampType: MBLK	Run ID: TITRATOR_070717A	Analysis Date: 07/17/07 12:55 PM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0	
Alkalinity, Carbonate (As CaCO3)	ND	20.0	
Alkalinity, Hydroxide (As CaCO3)	ND	20.0	
Alkalinity, Total (As CaCO3)	ND	20.0	

Sample ID: LCS-070717	Batch ID: R32626	TestNo: E310.1	Units: mg/L
SampType: LCS	Run ID: TITRATOR_070717A	Analysis Date: 07/17/07 12:59 PM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Total (As CaCO3)	53.8	20.0	50.00
		0	108
		74	129

Sample ID: 0707066-01C DUP	Batch ID: R32626	TestNo: E310.1	Units: mg/L
SampType: DUP	Run ID: TITRATOR_070717A	Analysis Date: 07/17/07 01:09 PM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	246	20.0	0
Alkalinity, Carbonate (As CaCO3)	0	20.0	0
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0
Alkalinity, Total (As CaCO3)	246	20.0	0
			246.8
			0.119
			20

Sample ID: CCV-070717	Batch ID: R32626	TestNo: E310.1	Units: mg/L
SampType: CCV	Run ID: TITRATOR_070717A	Analysis Date: 07/17/07 01:24 PM	Prep Date: 07/17/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	11.8	20.0	0
Alkalinity, Carbonate (As CaCO3)	90.2	20.0	0
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0
Alkalinity, Total (As CaCO3)	102	20.0	100.0
		0	102
		90	110

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_070719A

Sample ID:	MB-26573	Batch ID:	26573	TestNo:	E310.1	Units:	mg/kg			
SampType:	MBLK	Run ID:	TITRATOR_070719A	Analysis Date:	07/19/07 10:14 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	50.0								
Alkalinity, Carbonate (As CaCO3)	ND	50.0								
Alkalinity, Hydroxide (As CaCO3)	ND	50.0								
Alkalinity, Total (As CaCO3)	ND	50.0								

Sample ID:	LCS-26573	Batch ID:	26573	TestNo:	E310.1	Units:	mg/kg			
SampType:	LCS	Run ID:	TITRATOR_070719A	Analysis Date:	07/19/07 10:18 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	268	50.0	250.0	0	107	81.6	123			

Sample ID:	0707095-03A DUP	Batch ID:	26573	TestNo:	E310.1	Units:	mg/kg-dry			
SampType:	DUP	Run ID:	TITRATOR_070719A	Analysis Date:	07/19/07 10:54 AM	Prep Date:	07/18/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	211	61.6	0	267.4				23.7	0	
Alkalinity, Carbonate (As CaCO3)	179	61.6	0	220.8				21.0	0	
Alkalinity, Hydroxide (As CaCO3)	0	61.6	0	0				0	0	
Alkalinity, Total (As CaCO3)	389	61.6	0	488.1				22.5	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_070719A

Sample ID: ICV-070719	Batch ID: R32670	TestNo: E310.1	Units: mg/L
SampType: ICV	Run ID: TITRATOR_070719A	Analysis Date: 07/19/07 10:10 AM	Prep Date: 07/19/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	10.5	50.0	0
Alkalinity, Carbonate (As CaCO3)	90.4	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	101	50.0	100.0

Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
0	101	90	110			

Sample ID: CCV-070719	Batch ID: R32670	TestNo: E310.1	Units: mg/kg
SampType: CCV	Run ID: TITRATOR_070719A	Analysis Date: 07/19/07 11:16 AM	Prep Date: 07/19/07
Analyte	Result	RL	SPK value
Alkalinity, Bicarbonate (As CaCO3)	15.6	50.0	0
Alkalinity, Carbonate (As CaCO3)	85.3	50.0	0
Alkalinity, Hydroxide (As CaCO3)	0	50.0	0
Alkalinity, Total (As CaCO3)	101	50.0	100.0

Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

ANALYTICAL QC SUMMARY REPORT

RunID: WC_070718A

Sample ID:	Batch ID:	TestNo:	Units:
ICV-070718	CONDW-07/18/07	Agron 10-2.3	µmhos/cm
SampType: ICV	Run ID: WC_070718A	Analysis Date: 07/18/07 11:20 AM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Specific Conductance	12900	10.0	12880
		Ref Val	%REC
		0	100
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
			Qual
Sample ID: MBLK-070718	Batch ID: CONDW-07/18/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: MBLK	Run ID: WC_070718A	Analysis Date: 07/18/07 11:20 AM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Specific Conductance	ND	10.0	
Sample ID: LCS-070718	Batch ID: CONDW-07/18/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: LCS	Run ID: WC_070718A	Analysis Date: 07/18/07 11:20 AM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Specific Conductance	1360	10.0	1413
		Ref Val	%REC
		0	95.9
		LowLimit	HighLimit
		91	107
		%RPD	RPD Limit
			Qual
Sample ID: 0707095-03A DUP	Batch ID: CONDW-07/18/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: DUP	Run ID: WC_070718A	Analysis Date: 07/18/07 11:20 AM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Specific Conductance	5070	10.0	0
		Ref Val	%REC
		5010	
		LowLimit	HighLimit
		%RPD	RPD Limit
		1.19	25
			Qual
Sample ID: CCV-070718	Batch ID: CONDW-07/18/07	TestNo: Agron 10-2.3	Units: µmhos/cm
SampType: CCV	Run ID: WC_070718A	Analysis Date: 07/18/07 11:20 AM	Prep Date: 07/18/07
Analyte	Result	RL	SPK value
Specific Conductance	12700	10.0	12880
		Ref Val	%REC
		0	98.4
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
			Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0707095
 Project: RRC-Petronila Creek Groundwater Investigation

MQL SUMMARY REPORT

TestNo: E300	MDL	MQL	Magnesium	0.100	0.100
Analyte	mg/L	mg/L	Potassium	0.100	0.100
Bromide	0.300	1.00	Sodium	0.100	0.100
Chloride	0.300	1.00			
Nitrate-N	0.100	0.500	TestNo: Agron 10-2.3	MDL	MQL
Sulfate	1.00	3.00	Analyte	µmhos/cm	µmhos/cm
TestNo: E310.1	MDL	MQL	Specific Conductance	10.0	10.0
Analyte	mg/L	mg/L			
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0			
Alkalinity, Carbonate (As CaCO3)	10.0	20.0			
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0			
Alkalinity, Total (As CaCO3)	10.0	20.0			
TestNo: E310.1	MDL	MQL			
Analyte	mg/kg	mg/kg			
Alkalinity, Bicarbonate (As CaCO3)	50.0	50.0			
Alkalinity, Carbonate (As CaCO3)	50.0	50.0			
Alkalinity, Hydroxide (As CaCO3)	50.0	50.0			
Alkalinity, Total (As CaCO3)	50.0	50.0			
TestNo: SW9056	MDL	MQL			
Analyte	mg/Kg	mg/Kg			
Bromide	5.00	5.00			
Chloride	5.00	5.00			
Nitrate-N	5.00	5.00			
Sulfate	10.0	10.0			
TestNo: SW6020	MDL	MQL			
Analyte	mg/Kg	mg/Kg			
Barium	0.500	2.00			
Calcium	12.5	12.5			
Iron	12.5	12.5			
Magnesium	12.5	12.5			
Potassium	12.5	12.5			
Sodium	12.5	12.5			
TestNo: SW6020	MDL	MQL			
Analyte	mg/L	mg/L			
Barium	0.00300	0.0100			
Calcium	0.100	0.100			
Iron	0.0500	0.100			

Qualifiers:
 MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



October 18, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0710032

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek

Dear Steve Miller:

DHL Analytical received 7 sample(s) on 10/3/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style with a large initial "J".

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-06-TX



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FedEx US Airbill

Express

FedEx Tracking Number: 8627 8562 9585

0200 Recipient's Copy

1 From [Redacted] Date [Redacted]

Sender's Name: EXPERT CLARK Phone: 512 389 1180

Company: TRC

Address: 505 E. Huathard Dr Dept./Floor/Suite/Room: 250

City: Austin State: TX ZIP: 78752

2 Your Internal Billing Reference: 128161-000008

3 To Recipient's Name: [Redacted] Phone: 512 388 8222

Company: DAL Analytical

Recipient's Address: 2300 Double Creek Drive Dept./Floor/Suite/Room:

Address: TX

City: Round Rock State: TX ZIP: 78664



8627 8562 9585

4a Express Package Service

FedEx Priority Overnight (Next business morning * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected)

FedEx Standard Overnight (Next business afternoon * Saturday Delivery NOT available)

FedEx First Overnight (Earliest next business morning delivery to select locations * Saturday Delivery NOT available)

FedEx 2Day (Second business day * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected)

FedEx Express Saver (Third business day * Saturday Delivery NOT available)

* To most locations. FedEx Envelope rate not available. Minimum charge. One parcel rate.

4b Express Freight Service

FedEx 1Day Freight* (Next business day * Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected)

FedEx 2Day Freight (Second business day * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected)

FedEx 3Day Freight (Third business day * Saturday Delivery NOT available)

* Call for Confirmation. ** To most locations.

5 Packaging

FedEx Envelope* FedEx Pak* (Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak) FedEx Box FedEx Tube Other * Declared value limit \$500

6 Special Handling

SATURDAY Delivery (Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight)

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HOLD Saturday at FedEx Location (Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations)

Does this shipment contain dangerous goods? (One box must be checked)

No Yes (As per attached Shipper's Declaration) Yes (Shipper's Declaration not required) Dry Ice (Dry Ice, 3, UN 1845) Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. Other Receipt Shipper's Receipt

Sender Recipient Third Party Credit Card Cash/Check

Total Packages: [Redacted] Total Weight: [Redacted] Total Declared Value*: \$ 00

Your liability is limited to \$100 unless you declare a higher value. See back for details. Credit Card Auth.

8 Residential Delivery Signature Options

No Signature Required (Package may be left without obtaining a signature for delivery)

Direct Signature (Someone at recipient's address must sign for delivery. Fee applies.)

Indirect Signature (If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.)

520

Rev. Date: 10/06/04 #150281 v1/1994. 2004 FedEx® PRINTED IN U.S.A. 5/01

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fedex.com 1.800.GoFedEx 1.800.463.3339

CUSTODY SEAL

DATE: 10/2/07

SIGNATURE: [Signature]

OEC

Quality Environmental Containers

800-255-3950 • 304-255-3900

Laboratory Data Package Signature Page

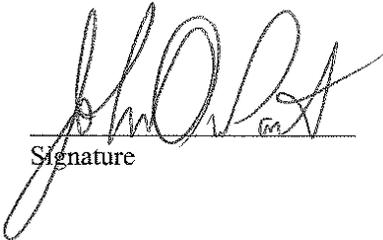
This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

10/18/07
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: <i>RRC - Petronilla Creek</i>		Date: <i>10/18/07</i>					
Reviewer Name: Laura Flowers		Laboratory Work Order: <i>0710032</i>					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			✓		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			✓		
		8) If required for the project, TICs reported?			✓		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			✓		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?		✓			R10-01
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: <u>RRC - Petronila Creek</u>		Date: <u>10/18/07</u>					
Reviewer Name: <u>Laura Flowers</u>		Laboratory Work Order: <u>0710032</u>					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section I appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			S9-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 10/3/2007

Work Order Number 0710032

Received by DU

Checklist completed by: [Signature] 10-3-07

Reviewed by: [Initials JD] 10/03/07

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []
Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []
Water - pH acceptable upon receipt? Yes [checked] No [] Not Applicable []

Adjusted? No Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710032

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320B (18th edition) - Alkalinity
Method M2510 B (18th edition) - Specific Conductance
Method M4500-H+ B (18th edition) - pH of Water
Method M2540C (18th edition) - TDS Analysis

Exception Report R1-01

Samples were received and log-in performed on 10/3/07. A total of 7 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis, the recoveries of the matrix spike (0710047-05B MS) and matrix spike duplicate (0710047-05B MSD) were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken and no sample results were adversely affected.

Exception Report R10-01

For Anions analysis, all the samples were diluted prior to analysis due to the nature of the samples (high specific conductance).

Exception Report S9-01

For Metals analysis, the recovery of the post digestion spike (0710047-05B PDS) was below control limits for Calcium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710032

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0710032-01	P-MW-11		10/02/07 11:22 AM	10/03/07
0710032-02	P-MW-10		10/02/07 01:30 PM	10/03/07
0710032-03	P-MW-12		10/02/07 01:50 PM	10/03/07
0710032-04	P-MW-21		10/02/07 02:36 PM	10/03/07
0710032-05	P-MW-20		10/02/07 02:40 PM	10/03/07
0710032-06	P-MW-22		10/02/07 03:10 PM	10/03/07
0710032-07	P-MW-01		10/02/07 04:40 PM	10/03/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710032-01A	P-MW-11	10/02/07 11:22 AM	Aqueous	M4500-H+ B	pH	10/03/07 11:27 AM	R33956
0710032-01B	P-MW-11	10/02/07 11:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-11	10/02/07 11:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-11	10/02/07 11:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-11	10/02/07 11:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-11	10/02/07 11:22 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710032-01C	P-MW-11	10/02/07 11:22 AM	Aqueous	M2320 B	Alkalinity	10/04/07 12:16 PM	R33981
	P-MW-11	10/02/07 11:22 AM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710032-01D	P-MW-11	10/02/07 11:22 AM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-11	10/02/07 11:22 AM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-11	10/02/07 11:22 AM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-11	10/02/07 11:22 AM	Aqueous	M2510 B	Specific Conductance	10/03/07	CONDW-10/03/07
0710032-02A	P-MW-10	10/02/07 01:30 PM	Aqueous	M4500-H+ B	pH	10/03/07 11:29 AM	R33956
0710032-02B	P-MW-10	10/02/07 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-10	10/02/07 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-10	10/02/07 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-10	10/02/07 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-10	10/02/07 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710032-02C	P-MW-10	10/02/07 01:30 PM	Aqueous	M2320 B	Alkalinity	10/04/07 12:30 PM	R33981
	P-MW-10	10/02/07 01:30 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710032-02D	P-MW-10	10/02/07 01:30 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-10	10/02/07 01:30 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-10	10/02/07 01:30 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-10	10/02/07 01:30 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-10	10/02/07 01:30 PM	Aqueous	M2510 B	Specific Conductance	10/03/07	CONDW-10/03/07
0710032-03A	P-MW-12	10/02/07 01:50 PM	Aqueous	M4500-H+ B	pH	10/03/07 11:30 AM	R33956
0710032-03B	P-MW-12	10/02/07 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-12	10/02/07 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-12	10/02/07 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-12	10/02/07 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-12	10/02/07 01:50 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710032-03C	P-MW-12	10/02/07 01:50 PM	Aqueous	M2320 B	Alkalinity	10/04/07 12:43 PM	R33981
	P-MW-12	10/02/07 01:50 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710032-03D	P-MW-12	10/02/07 01:50 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-12	10/02/07 01:50 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-12	10/02/07 01:50 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-12	10/02/07 01:50 PM	Aqueous	M2510 B	Specific Conductance	10/03/07	CONDW-10/03/07
0710032-04A	P-MW-21	10/02/07 02:36 PM	Aqueous	M4500-H+ B	pH	10/03/07 11:31 AM	R33956
0710032-04B	P-MW-21	10/02/07 02:36 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-21	10/02/07 02:36 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-21	10/02/07 02:36 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-21	10/02/07 02:36 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-21	10/02/07 02:36 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710032-04C	P-MW-21	10/02/07 02:36 PM	Aqueous	M2320 B	Alkalinity	10/04/07 12:52 PM	R33981
	P-MW-21	10/02/07 02:36 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710032-04D	P-MW-21	10/02/07 02:36 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-21	10/02/07 02:36 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-21	10/02/07 02:36 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-21	10/02/07 02:36 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-21	10/02/07 02:36 PM	Aqueous	M2510 B	Specific Conductance	10/03/07	CONDW-10/03/07
0710032-05A	P-MW-20	10/02/07 02:40 PM	Aqueous	M4500-H+ B	pH	10/03/07 11:32 AM	R33956
0710032-05B	P-MW-20	10/02/07 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-20	10/02/07 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-20	10/02/07 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-20	10/02/07 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-20	10/02/07 02:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710032-05C	P-MW-20	10/02/07 02:40 PM	Aqueous	M2320 B	Alkalinity	10/04/07 01:00 PM	R33981
	P-MW-20	10/02/07 02:40 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710032-05D	P-MW-20	10/02/07 02:40 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-20	10/02/07 02:40 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-20	10/02/07 02:40 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-20	10/02/07 02:40 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-20	10/02/07 02:40 PM	Aqueous	M2510 B	Specific Conductance	10/03/07	CONDW-10/03/07
0710032-06A	P-MW-22	10/02/07 03:10 PM	Aqueous	M4500-H+ B	pH	10/03/07 11:33 AM	R33956
0710032-06B	P-MW-22	10/02/07 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-22	10/02/07 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-22	10/02/07 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-22	10/02/07 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-22	10/02/07 03:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710032-06C	P-MW-22	10/02/07 03:10 PM	Aqueous	M2320 B	Alkalinity	10/04/07 01:17 PM	R33981
	P-MW-22	10/02/07 03:10 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710032-06D	P-MW-22	10/02/07 03:10 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-22	10/02/07 03:10 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-22	10/02/07 03:10 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-22	10/02/07 03:10 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-22	10/02/07 03:10 PM	Aqueous	M2510 B	Specific Conductance	10/03/07	CONDW-10/03/07
0710032-07A	P-MW-01	10/02/07 04:40 PM	Aqueous	M4500-H+ B	pH	10/03/07 11:35 AM	R33956
0710032-07B	P-MW-01	10/02/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-01	10/02/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-01	10/02/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-01	10/02/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-01	10/02/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710032-07C	P-MW-01	10/02/07 04:40 PM	Aqueous	M2320 B	Alkalinity	10/04/07 01:28 PM	R33981
	P-MW-01	10/02/07 04:40 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710032-07D	P-MW-01	10/02/07 04:40 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-01	10/02/07 04:40 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961
	P-MW-01	10/02/07 04:40 PM	Aqueous	E300	Anions by IC method - Water	10/03/07	R33961

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-01	10/02/07 04:40 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-01	10/02/07 04:40 PM	Aqueous	M2510 B	Specific Conductance	10/03/07	CONDW-10/03/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710032-01A	P-MW-11	Aqueous	M4500-H+ B	pH	R33956	1	10/03/07 11:27 AM	TITRATOR_071003A
0710032-01B	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/09/07 05:54 PM	ICP-MS3_071009A
	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:27 PM	ICP-MS3_071009A
	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:17 PM	ICP-MS3_071009A
	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/11/07 02:46 PM	ICP-MS3_071011A
	P-MW-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/15/07 07:18 PM	ICP-MS3_071015A
0710032-01C	P-MW-11	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 12:16 PM	TITRATOR_071004B
	P-MW-11	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710032-01D	P-MW-11	Aqueous	E300	Anions by IC method - Water	R33961	2	10/03/07 03:05 PM	IC2_071003A
	P-MW-11	Aqueous	E300	Anions by IC method - Water	R33961	100	10/03/07 05:50 PM	IC2_071003A
	P-MW-11	Aqueous	E300	Anions by IC method - Water	R34127	100	10/15/07 10:20 AM	IC2_071015A
	P-MW-11	Aqueous	M2510 B	Specific Conductance	CONDW-10/03/07	1	10/03/07 01:25 PM	WC_071003B
0710032-02A	P-MW-10	Aqueous	M4500-H+ B	pH	R33956	1	10/03/07 11:29 AM	TITRATOR_071003A
0710032-02B	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/09/07 05:59 PM	ICP-MS3_071009A
	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:31 PM	ICP-MS3_071009A
	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:22 PM	ICP-MS3_071009A
	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/11/07 02:50 PM	ICP-MS3_071011A
	P-MW-10	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 07:22 PM	ICP-MS3_071015A
0710032-02C	P-MW-10	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 12:30 PM	TITRATOR_071004B
	P-MW-10	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710032-02D	P-MW-10	Aqueous	E300	Anions by IC method - Water	R33961	5	10/03/07 03:23 PM	IC2_071003A
	P-MW-10	Aqueous	E300	Anions by IC method - Water	R33961	1000	10/03/07 06:49 PM	IC2_071003A
	P-MW-10	Aqueous	E300	Anions by IC method - Water	R33961	50	10/03/07 07:03 PM	IC2_071003A
	P-MW-10	Aqueous	E300	Anions by IC method - Water	R34127	200	10/15/07 10:34 AM	IC2_071015A
	P-MW-10	Aqueous	M2510 B	Specific Conductance	CONDW-10/03/07	5	10/03/07 01:25 PM	WC_071003B
0710032-03A	P-MW-12	Aqueous	M4500-H+ B	pH	R33956	1	10/03/07 11:30 AM	TITRATOR_071003A
0710032-03B	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/09/07 06:03 PM	ICP-MS3_071009A
	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:36 PM	ICP-MS3_071009A
	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:26 PM	ICP-MS3_071009A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/11/07 02:55 PM	ICP-MS3_071011A
	P-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/15/07 07:27 PM	ICP-MS3_071015A
0710032-03C	P-MW-12	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 12:43 PM	TITRATOR_071004B
	P-MW-12	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710032-03D	P-MW-12	Aqueous	E300	Anions by IC method - Water	R33961	2	10/03/07 03:38 PM	IC2_071003A
	P-MW-12	Aqueous	E300	Anions by IC method - Water	R33961	100	10/03/07 07:18 PM	IC2_071003A
	P-MW-12	Aqueous	E300	Anions by IC method - Water	R34127	100	10/15/07 10:49 AM	IC2_071015A
	P-MW-12	Aqueous	M2510 B	Specific Conductance	CONDW-10/03/07	1	10/03/07 01:25 PM	WC_071003B
0710032-04A	P-MW-21	Aqueous	M4500-H+ B	pH	R33956	1	10/03/07 11:31 AM	TITRATOR_071003A
0710032-04B	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/09/07 06:07 PM	ICP-MS3_071009A
	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:40 PM	ICP-MS3_071009A
	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:31 PM	ICP-MS3_071009A
	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 02:59 PM	ICP-MS3_071011A
	P-MW-21	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 07:31 PM	ICP-MS3_071015A
0710032-04C	P-MW-21	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 12:52 PM	TITRATOR_071004B
	P-MW-21	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710032-04D	P-MW-21	Aqueous	E300	Anions by IC method - Water	R33961	5	10/03/07 03:53 PM	IC2_071003A
	P-MW-21	Aqueous	E300	Anions by IC method - Water	R33961	50	10/03/07 07:33 PM	IC2_071003A
	P-MW-21	Aqueous	E300	Anions by IC method - Water	R33961	1000	10/03/07 07:47 PM	IC2_071003A
	P-MW-21	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 11:04 AM	IC2_071015A
	P-MW-21	Aqueous	M2510 B	Specific Conductance	CONDW-10/03/07	5	10/03/07 01:25 PM	WC_071003B
0710032-05A	P-MW-20	Aqueous	M4500-H+ B	pH	R33956	1	10/03/07 11:32 AM	TITRATOR_071003A
0710032-05B	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/09/07 06:12 PM	ICP-MS3_071009A
	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:44 PM	ICP-MS3_071009A
	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:35 PM	ICP-MS3_071009A
	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 03:04 PM	ICP-MS3_071011A
	P-MW-20	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 07:36 PM	ICP-MS3_071015A
0710032-05C	P-MW-20	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 01:00 PM	TITRATOR_071004B
	P-MW-20	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710032-05D	P-MW-20	Aqueous	E300	Anions by IC method - Water	R33961	5	10/03/07 04:07 PM	IC2_071003A
	P-MW-20	Aqueous	E300	Anions by IC method - Water	R33961	50	10/03/07 08:02 PM	IC2_071003A
	P-MW-20	Aqueous	E300	Anions by IC method - Water	R33961	1000	10/03/07 08:17 PM	IC2_071003A
	P-MW-20	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 11:19 AM	IC2_071015A
	P-MW-20	Aqueous	M2510 B	Specific Conductance	CONDW-10/03/07	5	10/03/07 01:25 PM	WC_071003B
0710032-06A	P-MW-22	Aqueous	M4500-H+ B	pH	R33956	1	10/03/07 11:33 AM	TITRATOR_071003A
0710032-06B	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/09/07 06:16 PM	ICP-MS3_071009A
	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:49 PM	ICP-MS3_071009A
	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:39 PM	ICP-MS3_071009A
	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/11/07 03:08 PM	ICP-MS3_071011A
	P-MW-22	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/15/07 07:40 PM	ICP-MS3_071015A
0710032-06C	P-MW-22	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 01:17 PM	TITRATOR_071004B
	P-MW-22	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710032-06D	P-MW-22	Aqueous	E300	Anions by IC method - Water	R33961	2	10/03/07 04:22 PM	IC2_071003A
	P-MW-22	Aqueous	E300	Anions by IC method - Water	R33961	500	10/03/07 08:31 PM	IC2_071003A
	P-MW-22	Aqueous	E300	Anions by IC method - Water	R33961	10	10/03/07 09:01 PM	IC2_071003A
	P-MW-22	Aqueous	E300	Anions by IC method - Water	R34127	100	10/15/07 11:33 AM	IC2_071015A
	P-MW-22	Aqueous	M2510 B	Specific Conductance	CONDW-10/03/07	2	10/03/07 01:25 PM	WC_071003B
0710032-07A	P-MW-01	Aqueous	M4500-H+ B	pH	R33956	1	10/03/07 11:35 AM	TITRATOR_071003A
0710032-07B	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/09/07 06:21 PM	ICP-MS3_071009A
	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:53 PM	ICP-MS3_071009A
	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:44 PM	ICP-MS3_071009A
	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 03:13 PM	ICP-MS3_071011A
	P-MW-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 07:45 PM	ICP-MS3_071015A
0710032-07C	P-MW-01	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 01:28 PM	TITRATOR_071004B
	P-MW-01	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710032-07D	P-MW-01	Aqueous	E300	Anions by IC method - Water	R33961	5	10/03/07 04:37 PM	IC2_071003A
	P-MW-01	Aqueous	E300	Anions by IC method - Water	R33961	50	10/03/07 09:15 PM	IC2_071003A
	P-MW-01	Aqueous	E300	Anions by IC method - Water	R33961	1000	10/03/07 09:30 PM	IC2_071003A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710032

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-01	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 11:48 AM	IC2_071015A
	P-MW-01	Aqueous	M2510 B	Specific Conductance	CONDW-10/03/07	5	10/03/07 01:25 PM	WC_071003B

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-11
Project:	RRC-Petronila Creek	Lab ID:	0710032-01
Project No:	128161	Collection Date:	10/02/07 11:22 AM
Lab Order:	0710032	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0469	0.00300	0.0100		mg/L	1	10/09/07 09:17 PM
Calcium	750	50.0	50.0		mg/L	500	10/15/07 07:18 PM
Iron	2.90	0.0500	0.100		mg/L	1	10/09/07 09:17 PM
Magnesium	85.1	1.00	1.00		mg/L	10	10/09/07 07:27 PM
Potassium	3.51	0.100	0.100		mg/L	1	10/09/07 09:17 PM
Sodium	1960	50.0	50.0		mg/L	500	10/15/07 07:18 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	6.36	0.600	2.00		mg/L	2	10/03/07 03:05 PM
Chloride	3240	30.0	100		mg/L	100	10/15/07 10:20 AM
Nitrate-N	5.21	0.200	1.00		mg/L	2	10/03/07 03:05 PM
Sulfate	2200	100	300		mg/L	100	10/15/07 10:20 AM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	317	10.0	20.0		mg/L	1	10/04/07 12:16 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:16 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:16 PM
Alkalinity, Total (As CaCO3)	317	10.0	20.0		mg/L	1	10/04/07 12:16 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.77	0	0		pH Units	1	10/03/07 11:27 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	12500	10.0	10.0		µmhos/cm	1	10/03/07 01:25 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	8140	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-10
Project:	RRC-Petronila Creek	Lab ID:	0710032-02
Project No:	128161	Collection Date:	10/02/07 01:30 PM
Lab Order:	0710032	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0787	0.00300	0.0100		mg/L	1	10/09/07 09:22 PM
Calcium	1090	100	100		mg/L	1000	10/15/07 07:22 PM
Iron	4.10	0.0500	0.100		mg/L	1	10/09/07 09:22 PM
Magnesium	291	10.0	10.0		mg/L	100	10/09/07 05:59 PM
Potassium	18.3	1.00	1.00		mg/L	10	10/09/07 07:31 PM
Sodium	5040	100	100		mg/L	1000	10/15/07 07:22 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	16.3	1.50	5.00		mg/L	5	10/03/07 03:23 PM
Chloride	9280	60.0	200		mg/L	200	10/15/07 10:34 AM
Nitrate-N	76.5	0.500	2.50		mg/L	5	10/03/07 03:23 PM
Sulfate	3140	200	600		mg/L	200	10/15/07 10:34 AM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	197	10.0	20.0		mg/L	1	10/04/07 12:30 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:30 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:30 PM
Alkalinity, Total (As CaCO3)	197	10.0	20.0		mg/L	1	10/04/07 12:30 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.94	0	0		pH Units	1	10/03/07 11:29 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	33600	50.0	50.0		µmhos/cm	5	10/03/07 01:25 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	20700	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-12
Project:	RRC-Petronila Creek	Lab ID:	0710032-03
Project No:	128161	Collection Date:	10/02/07 01:50 PM
Lab Order:	0710032	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.134	0.00300	0.0100		mg/L	1	10/09/07 09:26 PM
Calcium	468	50.0	50.0		mg/L	500	10/15/07 07:27 PM
Iron	1.41	0.0500	0.100		mg/L	1	10/09/07 09:26 PM
Magnesium	99.4	1.00	1.00		mg/L	10	10/09/07 07:36 PM
Potassium	7.29	0.100	0.100		mg/L	1	10/09/07 09:26 PM
Sodium	2040	50.0	50.0		mg/L	500	10/15/07 07:27 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	11.3	0.600	2.00		mg/L	2	10/03/07 03:38 PM
Chloride	3690	30.0	100		mg/L	100	10/15/07 10:49 AM
Nitrate-N	3.00	0.200	1.00		mg/L	2	10/03/07 03:38 PM
Sulfate	1040	100	300		mg/L	100	10/03/07 07:18 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	572	10.0	20.0		mg/L	1	10/04/07 12:43 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:43 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:43 PM
Alkalinity, Total (As CaCO3)	572	10.0	20.0		mg/L	1	10/04/07 12:43 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.12	0	0		pH Units	1	10/03/07 11:30 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	12300	10.0	10.0		µmhos/cm	1	10/03/07 01:25 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	8000	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-21
Project:	RRC-Petronila Creek	Lab ID:	0710032-04
Project No:	128161	Collection Date:	10/02/07 02:36 PM
Lab Order:	0710032	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.132	0.00300	0.0100		mg/L	1	10/09/07 09:31 PM
Calcium	798	10.0	10.0		mg/L	100	10/09/07 06:07 PM
Iron	2.67	0.0500	0.100		mg/L	1	10/09/07 09:31 PM
Magnesium	230	10.0	10.0		mg/L	100	10/09/07 06:07 PM
Potassium	23.2	1.00	1.00		mg/L	10	10/09/07 07:40 PM
Sodium	8590	100	100		mg/L	1000	10/15/07 07:31 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	44.7	1.50	5.00		mg/L	5	10/03/07 03:53 PM
Chloride	16900	300	1000		mg/L	1000	10/03/07 07:47 PM
Nitrate-N	3.00	0.500	2.50		mg/L	5	10/03/07 03:53 PM
Sulfate	2790	50.0	150		mg/L	50	10/03/07 07:33 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	307	10.0	20.0		mg/L	1	10/04/07 12:52 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:52 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 12:52 PM
Alkalinity, Total (As CaCO3)	307	10.0	20.0		mg/L	1	10/04/07 12:52 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.99	0	0		pH Units	1	10/03/07 11:31 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	50200	50.0	50.0		µmhos/cm	5	10/03/07 01:25 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	32400	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-20
Project:	RRC-Petronila Creek	Lab ID:	0710032-05
Project No:	128161	Collection Date:	10/02/07 02:40 PM
Lab Order:	0710032	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0881	0.00300	0.0100		mg/L	1	10/09/07 09:35 PM
Calcium	1410	100	100		mg/L	1000	10/15/07 07:36 PM
Iron	4.87	0.0500	0.100		mg/L	1	10/09/07 09:35 PM
Magnesium	366	10.0	10.0		mg/L	100	10/09/07 06:12 PM
Potassium	24.0	1.00	1.00		mg/L	10	10/09/07 07:44 PM
Sodium	6810	100	100		mg/L	1000	10/15/07 07:36 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	36.3	1.50	5.00		mg/L	5	10/03/07 04:07 PM
Chloride	14300	150	500		mg/L	500	10/15/07 11:19 AM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/03/07 04:07 PM
Sulfate	2520	500	1500		mg/L	500	10/15/07 11:19 AM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	272	10.0	20.0		mg/L	1	10/04/07 01:00 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:00 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:00 PM
Alkalinity, Total (As CaCO3)	272	10.0	20.0		mg/L	1	10/04/07 01:00 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.81	0	0		pH Units	1	10/03/07 11:32 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	43900	50.0	50.0		µmhos/cm	5	10/03/07 01:25 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	26900	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-22
Project:	RRC-Petronila Creek	Lab ID:	0710032-06
Project No:	128161	Collection Date:	10/02/07 03:10 PM
Lab Order:	0710032	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	1.90	0.00300	0.0100		mg/L	1	10/09/07 09:39 PM
Calcium	524	50.0	50.0		mg/L	500	10/15/07 07:40 PM
Iron	3.39	0.0500	0.100		mg/L	1	10/09/07 09:39 PM
Magnesium	210	10.0	10.0		mg/L	100	10/09/07 06:16 PM
Potassium	8.76	0.100	0.100		mg/L	1	10/09/07 09:39 PM
Sodium	2240	50.0	50.0		mg/L	500	10/15/07 07:40 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	13.5	0.600	2.00		mg/L	2	10/03/07 04:22 PM
Chloride	4690	30.0	100		mg/L	100	10/15/07 11:33 AM
Nitrate-N	ND	0.200	1.00		mg/L	2	10/03/07 04:22 PM
Sulfate	182	10.0	30.0		mg/L	10	10/03/07 09:01 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	710	10.0	20.0		mg/L	1	10/04/07 01:17 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:17 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:17 PM
Alkalinity, Total (As CaCO3)	710	10.0	20.0		mg/L	1	10/04/07 01:17 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.71	0	0		pH Units	1	10/03/07 11:33 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	15200	20.0	20.0		µmhos/cm	2	10/03/07 01:25 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	12500	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-01
Project:	RRC-Petronila Creek	Lab ID:	0710032-07
Project No:	128161	Collection Date:	10/02/07 04:40 PM
Lab Order:	0710032	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0353	0.00300	0.0100		mg/L	1	10/09/07 09:44 PM
Calcium	1320	100	100		mg/L	1000	10/11/07 03:13 PM
Iron	0.486	0.0500	0.100		mg/L	1	10/09/07 09:44 PM
Magnesium	337	10.0	10.0		mg/L	100	10/09/07 06:21 PM
Potassium	27.7	1.00	1.00		mg/L	10	10/09/07 07:53 PM
Sodium	5850	100	100		mg/L	1000	10/15/07 07:45 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	26.9	1.50	5.00		mg/L	5	10/03/07 04:37 PM
Chloride	12300	150	500		mg/L	500	10/15/07 11:48 AM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/03/07 04:37 PM
Sulfate	2690	50.0	150		mg/L	50	10/03/07 09:15 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	358	10.0	20.0		mg/L	1	10/04/07 01:28 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:28 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:28 PM
Alkalinity, Total (As CaCO3)	358	10.0	20.0		mg/L	1	10/04/07 01:28 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.65	0	0		pH Units	1	10/03/07 11:35 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	39000	50.0	50.0		µmhos/cm	5	10/03/07 01:25 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	25600	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071005A

Sample ID:	MB-27456	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:23 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.100								
Iron	ND	0.100								
Magnesium	ND	0.100								
Potassium	ND	0.100								
Sodium	ND	0.100								

Sample ID:	LCS-27456	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:27 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.202	0.0100	0.200	0	101	80	120			
Calcium	4.80	0.100	5.00	0	96.0	80	120			
Iron	4.95	0.100	5.00	0	99.0	80	120			
Magnesium	5.24	0.100	5.00	0	105	80	120			
Potassium	5.21	0.100	5.00	0	104	80	120			
Sodium	5.20	0.100	5.00	0	104	80	120			

Sample ID:	LCSD-27456	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	LCSD	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:31 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	80	120			
Calcium	4.69	0.100	5.00	0	93.7	80	120			
Iron	4.92	0.100	5.00	0	98.3	80	120			
Magnesium	5.22	0.100	5.00	0	104	80	120			
Potassium	5.15	0.100	5.00	0	103	80	120			
Sodium	5.19	0.100	5.00	0	104	80	120			

Sample ID:	0710047-05B SD	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:40 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0395	0.0500	0	0.0391				0.992	10	
Calcium	534	0.500	0	503				5.81	10	
Iron	0.374	0.500	0	0.392				4.90	10	

Sample ID:	0710047-05B MS	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:44 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.218	0.0100	0.200	0.0391	89.6	80	120			
Calcium	468	0.100	5.00	503	-702	80	120			S
Iron	4.77	0.100	5.00	0.392	87.6	80	120			
Magnesium	152	0.100	5.00	150	34.0	80	120			S
Potassium	18.4	0.100	5.00	14.8	72.0	80	120			S
Sodium	2580	0.100	5.00	2610	-560	80	120			S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071005A

Sample ID:	0710047-05B MSD	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:49 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.230	0.0100	0.200	0.0391	95.6	80	120	5.31	15	
Calcium	488	0.100	5.00	503	-298	80	120	4.22	15	S
Iron	4.79	0.100	5.00	0.392	87.9	80	120	0.335	15	
Magnesium	158	0.100	5.00	150	148	80	120	3.69	15	S
Potassium	18.9	0.100	5.00	14.8	82.0	80	120	2.68	15	
Sodium	2680	0.100	5.00	2610	1500	80	120	3.91	15	S

Sample ID:	0710047-05B PDS	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:53 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.213	0.0100	0.200	0.0391	86.8	75	125			
Calcium	443	0.100	5.00	503	-1210	75	125			S
Iron	4.62	0.100	5.00	0.392	84.6	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071005A

Sample ID:	ICV1-071005	Batch ID:	R34018	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 11:13 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.100	0.0100	0.100	0	101	90	110			
Calcium	2.34	0.100	2.50	0	93.5	90	110			
Iron	2.64	0.100	2.50	0	106	90	110			
Magnesium	2.54	0.100	2.50	0	101	90	110			
Potassium	2.50	0.100	2.50	0	99.9	90	110			
Sodium	2.61	0.100	2.50	0	104	90	110			

Sample ID:	CCV2-071005	Batch ID:	R34018	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:05 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	99.2	90	110			
Calcium	4.75	0.100	5.00	0	95.0	90	110			
Iron	5.05	0.100	5.00	0	101	90	110			
Magnesium	5.21	0.100	5.00	0	104	90	110			
Potassium	5.16	0.100	5.00	0	103	90	110			
Sodium	5.27	0.100	5.00	0	105	90	110			

Sample ID:	CCV3-071005	Batch ID:	R34018	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 02:20 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.195	0.0100	0.200	0	97.5	90	110			
Calcium	4.61	0.100	5.00	0	92.2	90	110			
Iron	4.72	0.100	5.00	0	94.5	90	110			
Magnesium	5.03	0.100	5.00	0	101	90	110			
Potassium	5.04	0.100	5.00	0	101	90	110			
Sodium	5.27	0.100	5.00	0	105	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071009A

Sample ID:	ICV2-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 05:36 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0980	0.0100	0.100	0	98.0	90	110			
Calcium	2.38	0.100	2.50	0	95.4	90	110			
Iron	2.68	0.100	2.50	0	107	90	110			
Magnesium	2.50	0.100	2.50	0	100	90	110			
Potassium	2.47	0.100	2.50	0	98.6	90	110			

Sample ID:	CCV5-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 06:51 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.96	0.100	5.00	0	99.2	90	110			
Iron	5.11	0.100	5.00	0	102	90	110			
Magnesium	5.23	0.100	5.00	0	105	90	110			
Potassium	5.02	0.100	5.00	0	100	90	110			

Sample ID:	CCV6-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 08:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	5.21	0.100	5.00	0	104	90	110			
Magnesium	5.31	0.100	5.00	0	106	90	110			
Potassium	5.16	0.100	5.00	0	103	90	110			

Sample ID:	CCV7-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 09:00 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	101	90	110			
Iron	5.09	0.100	5.00	0	102	90	110			
Potassium	5.12	0.100	5.00	0	102	90	110			

Sample ID:	CCV8-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 10:06 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	100	90	110			
Iron	5.00	0.100	5.00	0	100	90	110			
Potassium	5.26	0.100	5.00	0	105	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071011A

Sample ID:	ICV1-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 12:14 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.103	0.0100	0.100	0	103	90	110			
Calcium	2.39	0.100	2.50	0	95.6	90	110			
Iron	2.47	0.100	2.50	0	98.9	90	110			
Magnesium	2.44	0.100	2.50	0	97.6	90	110			
Potassium	2.41	0.100	2.50	0	96.3	90	110			
Sodium	2.37	0.100	2.50	0	94.8	90	110			

Sample ID:	CCV2-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 02:24 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.202	0.0100	0.200	0	101	90	110			
Calcium	4.82	0.100	5.00	0	96.4	90	110			
Potassium	4.98	0.100	5.00	0	99.7	90	110			
Sodium	4.76	0.100	5.00	0	95.2	90	110			

Sample ID:	CCV3-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 03:31 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.99	0.100	5.00	0	99.8	90	110			
Magnesium	4.82	0.100	5.00	0	96.5	90	110			
Sodium	4.67	0.100	5.00	0	93.4	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071015A

Sample ID:	ICV2-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 07:04 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.39	0.100	2.50	0	95.5	90	110			
Sodium	2.58	0.100	2.50	0	103	90	110			

Sample ID:	CCV6-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 07:54 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.83	0.100	5.00	0	96.5	90	110			
Sodium	5.10	0.100	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071003A

Sample ID:	ICV-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_071003A	Analysis Date:	10/03/07 09:39 AM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	51.4	1.00	50.00	0	103	90	110			
Chloride	25.4	1.00	25.00	0	102	90	110			
Nitrate-N	13.0	0.500	12.50	0	104	90	110			
Sulfate	77.2	3.00	75.00	0	103	90	110			

Sample ID:	MB-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_071003A	Analysis Date:	10/03/07 10:07 AM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Nitrate-N	ND	0.500								
Sulfate	ND	3.00								

Sample ID:	LCS-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC2_071003A	Analysis Date:	10/03/07 10:22 AM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.2	1.00	20.00	0	101	90	110			
Chloride	9.99	1.00	10.00	0	99.9	90	110			
Nitrate-N	5.16	0.500	5.000	0	103	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Sample ID:	LCSD-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC2_071003A	Analysis Date:	10/03/07 10:36 AM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.2	1.00	20.00	0	101	90	110	0.125	20	
Chloride	9.96	1.00	10.00	0	99.6	90	110	0.271	20	
Nitrate-N	5.16	0.500	5.000	0	103	90	110	0.0427	20	
Sulfate	30.2	3.00	30.00	0	101	90	110	0.393	20	

Sample ID:	CCV1-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071003A	Analysis Date:	10/03/07 12:34 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	0	102	90	110			
Chloride	10.1	1.00	10.00	0	101	90	110			
Nitrate-N	5.16	0.500	5.000	0	103	90	110			
Sulfate	30.3	3.00	30.00	0	101	90	110			

Sample ID:	CCV2-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071003A	Analysis Date:	10/03/07 02:51 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.1	1.00	20.00	0	100	90	110			
Chloride	9.98	1.00	10.00	0	99.8	90	110			
Nitrate-N	5.08	0.500	5.000	0	102	90	110			
Sulfate	30.0	3.00	30.00	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC2_071003A

Sample ID:	0710032-01D MS	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_071003A	Analysis Date:	10/03/07 05:06 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	40.3	2.00	40.00	3.817	91.3	90	110			
Nitrate-N	12.5	1.00	10.00	3.124	93.9	90	110			

Sample ID:	0710032-01D MSD	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_071003A	Analysis Date:	10/03/07 05:21 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	40.3	2.00	40.00	3.817	91.3	90	110	0.00744	20	
Nitrate-N	12.5	1.00	10.00	3.124	94.0	90	110	0.0447	20	

Sample ID:	CCV3-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071003A	Analysis Date:	10/03/07 06:05 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	0	102	90	110			
Chloride	10.1	1.00	10.00	0	101	90	110			
Nitrate-N	5.14	0.500	5.000	0	103	90	110			
Sulfate	30.4	3.00	30.00	0	101	90	110			

Sample ID:	0710032-01D MS	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_071003A	Analysis Date:	10/03/07 06:19 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	2990	100	1000	2035	95.0	90	110			
Sulfate	4370	300	3000	1324	102	90	110			

Sample ID:	0710032-01D MSD	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_071003A	Analysis Date:	10/03/07 06:34 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	2990	100	1000	2035	95.6	90	110	0.209	20	
Sulfate	4380	300	3000	1324	102	90	110	0.143	20	

Sample ID:	CCV4-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071003A	Analysis Date:	10/03/07 08:46 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	30.5	3.00	30.00	0	102	90	110			

Sample ID:	CCV5-071003	Batch ID:	R33961	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071003A	Analysis Date:	10/03/07 09:45 PM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	30.6	3.00	30.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071015A

Sample ID:	ICV-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 09:20 AM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	24.9	1.00	25.00	0	99.7	90	110			
Sulfate	75.4	3.00	75.00	0	101	90	110			

Sample ID:	CCV1-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 12:03 PM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	30.3	3.00	30.00	0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071003A

Sample ID:	ICV-071003	Batch ID:	R33956	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	ICV	Run ID:	TITRATOR_071003A	Analysis Date:	10/03/07 11:26 AM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	9.99	0	10.00	0	99.9	99	101			
Sample ID:	0710032-01A DUP	Batch ID:	R33956	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	DUP	Run ID:	TITRATOR_071003A	Analysis Date:	10/03/07 11:28 AM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	6.80	0	0	6.770				0.442	15	
Sample ID:	CCV-071003	Batch ID:	R33956	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	CCV	Run ID:	TITRATOR_071003A	Analysis Date:	10/03/07 11:36 AM	Prep Date:	10/03/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071004B

Sample ID:	ICV-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	ICV	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 11:56 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	9.20	20.0	0							
Alkalinity, Carbonate (As CaCO3)	90.7	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.9	20.0	100.0	0	99.9	98	102			

Sample ID:	MB-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	MBLK	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 11:57 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	LCS	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 12:01 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	52.0	20.0	50.00	0	104	74	129			

Sample ID:	0710032-01C DUP	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 12:24 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	318	20.0	0	316.6				0.494	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	318	20.0	0	316.6				0.494	20	

Sample ID:	CCV1-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 01:33 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	17.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	82.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.6	20.0	100.0	0	99.6	90	110			

Sample ID:	0710047-05C DUP	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 02:28 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	284	20.0	0	283.0				0.263	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	284	20.0	0	283.0				0.263	20	

Sample ID:	CCV2-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 02:50 PM	Prep Date:	10/04/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071004B

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	22.9	20.0	0							
Alkalinity, Carbonate (As CaCO3)	75.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	98.7	20.0	100.0	0	98.7	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071003B

Sample ID: ICV-071003	Batch ID: CONDW-10/03/07	TestNo: M2510 B	Units: μmhos/cm
SampType: ICV	Run ID: WC_071003B	Analysis Date: 10/03/07 01:25 PM	Prep Date: 10/03/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12900 10.0 12880	0 100 95 105	

Sample ID: MB-071003	Batch ID: CONDW-10/03/07	TestNo: M2510 B	Units: μmhos/cm
SampType: MBLK	Run ID: WC_071003B	Analysis Date: 10/03/07 01:25 PM	Prep Date: 10/03/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	ND 10.0		

Sample ID: LCS-071003	Batch ID: CONDW-10/03/07	TestNo: M2510 B	Units: μmhos/cm
SampType: LCS	Run ID: WC_071003B	Analysis Date: 10/03/07 01:25 PM	Prep Date: 10/03/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	1370 10.0 1413	0 96.7 95 105	

Sample ID: 0710032-01D DUP	Batch ID: CONDW-10/03/07	TestNo: M2510 B	Units: μmhos/cm
SampType: DUP	Run ID: WC_071003B	Analysis Date: 10/03/07 01:25 PM	Prep Date: 10/03/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12600 10.0 0	12500	0.558 2

Sample ID: CCV-071003	Batch ID: CONDW-10/03/07	TestNo: M2510 B	Units: μmhos/cm
SampType: CCV	Run ID: WC_071003B	Analysis Date: 10/03/07 01:25 PM	Prep Date: 10/03/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12800 10.0 12880	0 99.4 95 105	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071005A

Sample ID: MB-071005	Batch ID: TDS_W-10/05/07	TestNo: M2540C	Units: mg/L
SampType: MBLK	Run ID: WC_071005A	Analysis Date: 10/08/07 08:15 AM	Prep Date: 10/05/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	ND	10.0	

Sample ID: LCS-071005	Batch ID: TDS_W-10/05/07	TestNo: M2540C	Units: mg/L
SampType: LCS	Run ID: WC_071005A	Analysis Date: 10/08/07 08:15 AM	Prep Date: 10/05/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	731	10.0 745.6	0 98.0 70 126

Sample ID: 0710032-01C DUP	Batch ID: TDS_W-10/05/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071005A	Analysis Date: 10/08/07 08:15 AM	Prep Date: 10/05/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	7840	10.0 0	8140 3.75 5

Sample ID: 0710047-05C DUP	Batch ID: TDS_W-10/05/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071005A	Analysis Date: 10/08/07 08:15 AM	Prep Date: 10/05/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	12900	10.0 0	12720 1.09 5

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710032
 Project: RRC-Petronila Creek

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00
TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO ₃)	10.0	20.0
Alkalinity, Carbonate (As CaCO ₃)	10.0	20.0
Alkalinity, Hydroxide (As CaCO ₃)	10.0	20.0
Alkalinity, Total (As CaCO ₃)	10.0	20.0
TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.100
Iron	0.0500	0.100
Magnesium	0.100	0.100
Potassium	0.100	0.100
Sodium	0.100	0.100
TestNo: M2510 B Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0
TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:

MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



October 18, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0710047

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek

Dear Steve Miller:

DHL Analytical received 7 sample(s) on 10/4/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style with a prominent loop at the end.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number:
T104704211-06-TX



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Sample Results 19

Analytical QC Summary Report 26

MQL Summary Report 40

FedEx US Airbill
Express

8627 8562 9427

0200

Form ID No.

FedEx Retrieval Copy

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From Date 10/3/07 Sender's FedEx Account Number 140246697
Sender's Name PARRET Clark Phone 512 379-6080
Company TRC
Address 505 E. Huntland Dr Apt. 200
City Austin State TX ZIP 78704
2 Your Internal Billing Reference 128161-000008
3 To Recipient's Name _____ Phone 512 388-8222
Company DAL Analytical
Recipient's Address 2300 Double Creek Dr
Address _____
City Round Rock State TX ZIP 78664



4a Express Package Service
 FedEx Priority Overnight
 FedEx Standard Overnight
 FedEx 2Day
 FedEx 2Day Freight
 Express Freight Service
 FedEx 1Day Freight
 FedEx 2Day Freight
 FedEx 3Day Freight

5 Packaging
 FedEx Envelope
 FedEx Pak
 FedEx Box
 FedEx Tube
 Other

6 Special Handling
 SATURDAY Delivery
 HOLD Weekday
 HOLD Saturday
 Dry Ice
 Cargo Aircraft Only

7 Payment Bill to
 Sender
 Recipient
 Third Party
 Credit Card
 Cash/Check

8 Residential Delivery Signature Options
 No Signature Required
 Direct Signature
 Indirect Signature

66

520

CUSTODY SEAL
DATE 10/3/2007
SIGNATURE _____

QEC
Quality Environmental Containers
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7
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1.6

Laboratory Data Package Signature Page

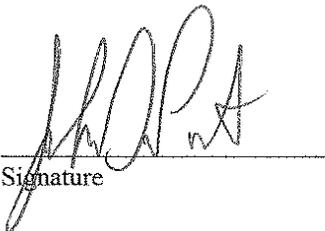
This data package consists of:

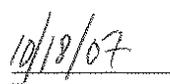
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature


Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: <i>RRC - Petronila Creek</i>	Date: <i>10/18/07</i>
Reviewer Name: Laura Flowers	Laboratory Work Order: <i>0710047</i>
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				<i>R1-01</i>
		2) Were all departures from standard conditions described in an exception report?	✓				
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			✓		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			✓		
		8) If required for the project, TICs reported?			✓		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			✓		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		<i>R7-03</i>
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓	✓			<i>R10-01</i>
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: *RRC-Petronilla Creek* Date: *10/18/07*
 Reviewer Name: Laura Flowers Laboratory Work Order: *0710047*

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			59-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 10/4/2007

Work Order Number 0710047

Received by DU

Checklist completed by: [Signature] 10.4.07
Signature Date

Reviewed by: [Initials JD] 10/04/07
Initials Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [] Not Applicable []

Adjusted? No Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments:

Corrective Action

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710047

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E300 - Anions Analysis
Method M2320B (18th edition) - Alkalinity
Method M2510 B (18th edition) - Specific Conductance
Method M4500-H+ B (18th edition) - pH of Water
Method M2540C (18th edition) - TDS Analysis

Exception Report R1-01

Samples were received and log-in performed on 10/4/07. A total of 7 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Metals analysis, the recoveries of the matrix spike (0710047-05B MS) and matrix spike duplicate (0710047-05B MSD) were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Anions analysis, the recoveries of the matrix spike (0710047-05D MS) and matrix spike duplicate (0710047-05B MSD) were slightly above control limits for Chloride. These are flagged accordingly. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for this analyte. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis, all the samples and the MS/MSD were diluted prior to analysis due to the nature of the samples (high specific conductance).

Sample P-MW-02 contained a large amount of silt, and samples P-MW-14 and P-MW-14D contained a small amount of silt.

Exception Report S9-01

For Metals analysis, the recovery of the post digestion spike (0710047-05B PDS) was below control limits for Calcium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710047

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0710047-01	P-MW-02		10/03/07 08:40 AM	10/04/07
0710047-02	P-D3-MW-27		10/03/07 09:20 AM	10/04/07
0710047-03	P-D2-MW-12		10/03/07 10:50 AM	10/04/07
0710047-04	P-MW-16		10/03/07 12:45 PM	10/04/07
0710047-05	P-MW-13		10/03/07 01:45 PM	10/04/07
0710047-06	P-MW-14		10/03/07 02:10 PM	10/04/07
0710047-07	P-MW-14D		10/03/07 02:10 PM	10/04/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710047-01A	P-MW-02	10/03/07 08:40 AM	Aqueous	M4500-H+ B	pH	10/04/07 10:44 AM	R33978
0710047-01B	P-MW-02	10/03/07 08:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-02	10/03/07 08:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-02	10/03/07 08:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-02	10/03/07 08:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-02	10/03/07 08:40 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710047-01C	P-MW-02	10/03/07 08:40 AM	Aqueous	M2320 B	Alkalinity	10/04/07 01:45 PM	R33981
	P-MW-02	10/03/07 08:40 AM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710047-01D	P-MW-02	10/03/07 08:40 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-02	10/03/07 08:40 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-02	10/03/07 08:40 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-02	10/03/07 08:40 AM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-02	10/03/07 08:40 AM	Aqueous	M2510 B	Specific Conductance	10/04/07	CONDW-10/04/07
0710047-02A	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	M4500-H+ B	pH	10/04/07 10:45 AM	R33978
0710047-02B	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710047-02C	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	M2320 B	Alkalinity	10/04/07 01:54 PM	R33981
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710047-02D	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-D3-MW-27	10/03/07 09:20 AM	Aqueous	M2510 B	Specific Conductance	10/04/07	CONDW-10/04/07
0710047-03A	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	M4500-H+ B	pH	10/04/07 10:46 AM	R33978

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710047-03B	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710047-03C	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	M2320 B	Alkalinity	10/04/07 02:04 PM	R33981
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710047-03D	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-D2-MW-12	10/03/07 10:50 AM	Aqueous	M2510 B	Specific Conductance	10/04/07	CONDW-10/04/07
0710047-04A	P-MW-16	10/03/07 12:45 PM	Aqueous	M4500-H+ B	pH	10/04/07 10:47 AM	R33978
0710047-04B	P-MW-16	10/03/07 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-16	10/03/07 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-16	10/03/07 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-16	10/03/07 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-16	10/03/07 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-16	10/03/07 12:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710047-04C	P-MW-16	10/03/07 12:45 PM	Aqueous	M2320 B	Alkalinity	10/04/07 02:13 PM	R33981
	P-MW-16	10/03/07 12:45 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710047-04D	P-MW-16	10/03/07 12:45 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-16	10/03/07 12:45 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-16	10/03/07 12:45 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-16	10/03/07 12:45 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-16	10/03/07 12:45 PM	Aqueous	M2510 B	Specific Conductance	10/04/07	CONDW-10/04/07
0710047-05A	P-MW-13	10/03/07 01:45 PM	Aqueous	M4500-H+ B	pH	10/04/07 10:48 AM	R33978
0710047-05B	P-MW-13	10/03/07 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-13	10/03/07 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-13	10/03/07 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-13	10/03/07 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-13	10/03/07 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-13	10/03/07 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-13	10/03/07 01:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710047-05C	P-MW-13	10/03/07 01:45 PM	Aqueous	M2320 B	Alkalinity	10/04/07 02:20 PM	R33981
	P-MW-13	10/03/07 01:45 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710047-05D	P-MW-13	10/03/07 01:45 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-13	10/03/07 01:45 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-13	10/03/07 01:45 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-13	10/03/07 01:45 PM	Aqueous	M2510 B	Specific Conductance	10/04/07	CONDW-10/04/07
0710047-06A	P-MW-14	10/03/07 02:10 PM	Aqueous	M4500-H+ B	pH	10/04/07 10:52 AM	R33978
0710047-06B	P-MW-14	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710047-06C	P-MW-14	10/03/07 02:10 PM	Aqueous	M2320 B	Alkalinity	10/04/07 02:36 PM	R33981
	P-MW-14	10/03/07 02:10 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710047-06D	P-MW-14	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-14	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-14	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-14	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-14	10/03/07 02:10 PM	Aqueous	M2510 B	Specific Conductance	10/04/07	CONDW-10/04/07
0710047-07A	P-MW-14D	10/03/07 02:10 PM	Aqueous	M4500-H+ B	pH	10/04/07 10:53 AM	R33978
0710047-07B	P-MW-14D	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14D	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14D	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14D	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
	P-MW-14D	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-14D	10/03/07 02:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/07 09:32 AM	27456
0710047-07C	P-MW-14D	10/03/07 02:10 PM	Aqueous	M2320 B	Alkalinity	10/04/07 02:45 PM	R33981
	P-MW-14D	10/03/07 02:10 PM	Aqueous	M2540C	Total Dissolved Solids	10/05/07 10:00 AM	TDS_W-10/05/07
0710047-07D	P-MW-14D	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-14D	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-14D	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/04/07	R33980
	P-MW-14D	10/03/07 02:10 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-14D	10/03/07 02:10 PM	Aqueous	M2510 B	Specific Conductance	10/04/07	CONDW-10/04/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710047-01A	P-MW-02	Aqueous	M4500-H+ B	pH	R33978	1	10/04/07 10:44 AM	TITRATOR_071004A
0710047-01B	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 07:58 PM	ICP-MS3_071009A
	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:48 PM	ICP-MS3_071009A
	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 03:17 PM	ICP-MS3_071011A
	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/11/07 04:23 PM	ICP-MS3_071011A
	P-MW-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 08:11 PM	ICP-MS3_071015A
0710047-01C	P-MW-02	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 01:45 PM	TITRATOR_071004B
	P-MW-02	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710047-01D	P-MW-02	Aqueous	E300	Anions by IC method - Water	R33980	5	10/04/07 10:58 AM	IC2_071004A
	P-MW-02	Aqueous	E300	Anions by IC method - Water	R33980	50	10/04/07 02:16 PM	IC2_071004A
	P-MW-02	Aqueous	E300	Anions by IC method - Water	R33980	1000	10/04/07 04:51 PM	IC2_071004A
	P-MW-02	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 12:31 PM	IC2_071015A
	P-MW-02	Aqueous	M2510 B	Specific Conductance	CONDW-10/04/07	5	10/04/07 10:30 AM	WC_071004A
0710047-02A	P-D3-MW-27	Aqueous	M4500-H+ B	pH	R33978	1	10/04/07 10:45 AM	TITRATOR_071004A
0710047-02B	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 08:02 PM	ICP-MS3_071009A
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:53 PM	ICP-MS3_071009A
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 03:22 PM	ICP-MS3_071011A
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	5000	10/11/07 04:14 PM	ICP-MS3_071011A
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/11/07 04:27 PM	ICP-MS3_071011A
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/11/07 05:16 PM	ICP-MS3_071011A
	P-D3-MW-27	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10000	10/15/07 08:16 PM	ICP-MS3_071015A
0710047-02C	P-D3-MW-27	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 01:54 PM	TITRATOR_071004B
	P-D3-MW-27	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710047-02D	P-D3-MW-27	Aqueous	E300	Anions by IC method - Water	R33980	10	10/04/07 11:27 AM	IC2_071004A
	P-D3-MW-27	Aqueous	E300	Anions by IC method - Water	R33980	50	10/04/07 02:30 PM	IC2_071004A
	P-D3-MW-27	Aqueous	E300	Anions by IC method - Water	R33980	2000	10/04/07 05:06 PM	IC2_071004A
	P-D3-MW-27	Aqueous	E300	Anions by IC method - Water	R34127	1000	10/15/07 12:46 PM	IC2_071015A
	P-D3-MW-27	Aqueous	M2510 B	Specific Conductance	CONDW-10/04/07	10	10/04/07 10:30 AM	WC_071004A
0710047-03A	P-D2-MW-12	Aqueous	M4500-H+ B	pH	R33978	1	10/04/07 10:46 AM	TITRATOR_071004A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710047-03B	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 08:07 PM	ICP-MS3_071009A
	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 09:57 PM	ICP-MS3_071009A
	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/11/07 03:51 PM	ICP-MS3_071011A
	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/11/07 04:31 PM	ICP-MS3_071011A
	P-D2-MW-12	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	500	10/15/07 08:20 PM	ICP-MS3_071015A
0710047-03C	P-D2-MW-12	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 02:04 PM	TITRATOR_071004B
	P-D2-MW-12	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710047-03D	P-D2-MW-12	Aqueous	E300	Anions by IC method - Water	R33980	2	10/04/07 11:41 AM	IC2_071004A
	P-D2-MW-12	Aqueous	E300	Anions by IC method - Water	R33980	200	10/04/07 02:45 PM	IC2_071004A
	P-D2-MW-12	Aqueous	E300	Anions by IC method - Water	R34127	100	10/15/07 01:00 PM	IC2_071015A
	P-D2-MW-12	Aqueous	M2510 B	Specific Conductance	CONDW-10/04/07	2	10/04/07 10:30 AM	WC_071004A
0710047-04A	P-MW-16	Aqueous	M4500-H+ B	pH	R33978	1	10/04/07 10:47 AM	TITRATOR_071004A
0710047-04B	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 08:33 PM	ICP-MS3_071009A
	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 10:24 PM	ICP-MS3_071009A
	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 03:56 PM	ICP-MS3_071011A
	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/11/07 04:58 PM	ICP-MS3_071011A
	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/11/07 05:20 PM	ICP-MS3_071011A
	P-MW-16	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 08:25 PM	ICP-MS3_071015A
0710047-04C	P-MW-16	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 02:13 PM	TITRATOR_071004B
	P-MW-16	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710047-04D	P-MW-16	Aqueous	E300	Anions by IC method - Water	R33980	5	10/04/07 11:56 AM	IC2_071004A
	P-MW-16	Aqueous	E300	Anions by IC method - Water	R33980	50	10/04/07 03:00 PM	IC2_071004A
	P-MW-16	Aqueous	E300	Anions by IC method - Water	R33980	1000	10/04/07 05:20 PM	IC2_071004A
	P-MW-16	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 01:15 PM	IC2_071015A
	P-MW-16	Aqueous	M2510 B	Specific Conductance	CONDW-10/04/07	5	10/04/07 10:30 AM	WC_071004A
0710047-05A	P-MW-13	Aqueous	M4500-H+ B	pH	R33978	1	10/04/07 10:48 AM	TITRATOR_071004A
0710047-05B	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/05/07 01:36 PM	ICP-MS3_071005A
	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 08:37 PM	ICP-MS3_071009A
	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 04:00 PM	ICP-MS3_071011A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/11/07 05:02 PM	ICP-MS3_071011A
	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/11/07 05:29 PM	ICP-MS3_071011A
	P-MW-13	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 08:29 PM	ICP-MS3_071015A
0710047-05C	P-MW-13	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 02:20 PM	TITRATOR_071004B
	P-MW-13	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710047-05D	P-MW-13	Aqueous	E300	Anions by IC method - Water	R33980	5	10/04/07 12:11 PM	IC2_071004A
	P-MW-13	Aqueous	E300	Anions by IC method - Water	R33980	200	10/04/07 03:14 PM	IC2_071004A
	P-MW-13	Aqueous	E300	Anions by IC method - Water	R34127	200	10/15/07 01:30 PM	IC2_071015A
	P-MW-13	Aqueous	M2510 B	Specific Conductance	CONDW-10/04/07	2	10/04/07 10:30 AM	WC_071004A
0710047-06A	P-MW-14	Aqueous	M4500-H+ B	pH	R33978	1	10/04/07 10:52 AM	TITRATOR_071004A
0710047-06B	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 08:42 PM	ICP-MS3_071009A
	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 10:28 PM	ICP-MS3_071009A
	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 04:05 PM	ICP-MS3_071011A
	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/11/07 05:07 PM	ICP-MS3_071011A
	P-MW-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 08:34 PM	ICP-MS3_071015A
0710047-06C	P-MW-14	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 02:36 PM	TITRATOR_071004B
	P-MW-14	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710047-06D	P-MW-14	Aqueous	E300	Anions by IC method - Water	R33980	5	10/04/07 01:32 PM	IC2_071004A
	P-MW-14	Aqueous	E300	Anions by IC method - Water	R33980	100	10/04/07 04:22 PM	IC2_071004A
	P-MW-14	Aqueous	E300	Anions by IC method - Water	R33980	200	10/04/07 07:18 PM	IC2_071004A
	P-MW-14	Aqueous	E300	Anions by IC method - Water	R34127	200	10/15/07 01:44 PM	IC2_071015A
	P-MW-14	Aqueous	M2510 B	Specific Conductance	CONDW-10/04/07	2	10/04/07 10:30 AM	WC_071004A
0710047-07A	P-MW-14D	Aqueous	M4500-H+ B	pH	R33978	1	10/04/07 10:53 AM	TITRATOR_071004A
0710047-07B	P-MW-14D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/09/07 08:46 PM	ICP-MS3_071009A
	P-MW-14D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1	10/09/07 10:33 PM	ICP-MS3_071009A
	P-MW-14D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/11/07 04:09 PM	ICP-MS3_071011A
	P-MW-14D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	100	10/11/07 05:11 PM	ICP-MS3_071011A
	P-MW-14D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	10	10/11/07 05:25 PM	ICP-MS3_071011A
	P-MW-14D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27456	1000	10/15/07 08:38 PM	ICP-MS3_071015A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710047

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710047-07C	P-MW-14D	Aqueous	M2320 B	Alkalinity	R33981	1	10/04/07 02:45 PM	TITRATOR_071004B
	P-MW-14D	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/05/07	1	10/08/07 08:15 AM	WC_071005A
0710047-07D	P-MW-14D	Aqueous	E300	Anions by IC method - Water	R33980	5	10/04/07 01:46 PM	IC2_071004A
	P-MW-14D	Aqueous	E300	Anions by IC method - Water	R33980	100	10/04/07 04:36 PM	IC2_071004A
	P-MW-14D	Aqueous	E300	Anions by IC method - Water	R33980	200	10/04/07 07:33 PM	IC2_071004A
	P-MW-14D	Aqueous	E300	Anions by IC method - Water	R34127	200	10/15/07 02:06 PM	IC2_071015A
	P-MW-14D	Aqueous	M2510 B	Specific Conductance	CONDW-10/04/07	2	10/04/07 10:30 AM	WC_071004A

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-02
Project:	RRC-Petronila Creek	Lab ID:	0710047-01
Project No:	128161.0000008	Collection Date:	10/03/07 08:40 AM
Lab Order:	0710047	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.159	0.00300	0.0100		mg/L	1	10/09/07 09:48 PM
Calcium	1730	100	100		mg/L	1000	10/11/07 03:17 PM
Iron	19.1	0.500	1.00		mg/L	10	10/09/07 07:58 PM
Magnesium	337	10.0	10.0		mg/L	100	10/11/07 04:23 PM
Potassium	28.0	1.00	1.00		mg/L	10	10/09/07 07:58 PM
Sodium	5970	100	100		mg/L	1000	10/11/07 03:17 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	28.7	1.50	5.00		mg/L	5	10/04/07 10:58 AM
Chloride	12100	150	500		mg/L	500	10/15/07 12:31 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/04/07 10:58 AM
Sulfate	2740	50.0	150		mg/L	50	10/04/07 02:16 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	381	10.0	20.0		mg/L	1	10/04/07 01:45 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:45 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:45 PM
Alkalinity, Total (As CaCO3)	381	10.0	20.0		mg/L	1	10/04/07 01:45 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.73	0	0		pH Units	1	10/04/07 10:44 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	38500	50.0	50.0		µmhos/cm	5	10/04/07 10:30 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	24600	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D3-MW-27
Project:	RRC-Petronila Creek	Lab ID:	0710047-02
Project No:	128161.0000008	Collection Date:	10/03/07 09:20 AM
Lab Order:	0710047	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.157	0.0300	0.100		mg/L	10	10/11/07 05:16 PM
Calcium	3420	100	100		mg/L	1000	10/11/07 03:22 PM
Iron	5.39	0.500	1.00		mg/L	10	10/11/07 05:16 PM
Magnesium	601	10.0	10.0		mg/L	100	10/11/07 04:27 PM
Potassium	47.1	1.00	1.00		mg/L	10	10/09/07 08:02 PM
Sodium	19100	1000	1000		mg/L	10000	10/15/07 08:16 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	133	3.00	10.0		mg/L	10	10/04/07 11:27 AM
Chloride	40400	300	1000		mg/L	1000	10/15/07 12:46 PM
Nitrate-N	ND	1.00	5.00		mg/L	10	10/04/07 11:27 AM
Sulfate	2400	50.0	150		mg/L	50	10/04/07 02:30 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	249	10.0	20.0		mg/L	1	10/04/07 01:54 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:54 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 01:54 PM
Alkalinity, Total (As CaCO3)	249	10.0	20.0		mg/L	1	10/04/07 01:54 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.29	0	0		pH Units	1	10/04/07 10:45 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	112000	100	100		µmhos/cm	10	10/04/07 10:30 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	72800	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D2-MW-12
Project:	RRC-Petronila Creek	Lab ID:	0710047-03
Project No:	128161.0000008	Collection Date:	10/03/07 10:50 AM
Lab Order:	0710047	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0199	0.00300	0.0100		mg/L	1	10/09/07 09:57 PM
Calcium	559	10.0	10.0		mg/L	100	10/11/07 04:31 PM
Iron	1.58	0.0500	0.100		mg/L	1	10/09/07 09:57 PM
Magnesium	103	1.00	1.00		mg/L	10	10/09/07 08:07 PM
Potassium	6.45	0.100	0.100		mg/L	1	10/09/07 09:57 PM
Sodium	2650	50.0	50.0		mg/L	500	10/15/07 08:20 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	9.53	0.600	2.00		mg/L	2	10/04/07 11:41 AM
Chloride	3510	30.0	100		mg/L	100	10/15/07 01:00 PM
Nitrate-N	2.34	0.200	1.00		mg/L	2	10/04/07 11:41 AM
Sulfate	3400	200	600		mg/L	200	10/04/07 02:45 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	448	10.0	20.0		mg/L	1	10/04/07 02:04 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:04 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:04 PM
Alkalinity, Total (As CaCO3)	448	10.0	20.0		mg/L	1	10/04/07 02:04 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.91	0	0		pH Units	1	10/04/07 10:46 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	15800	20.0	20.0		µmhos/cm	2	10/04/07 10:30 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	10700	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-16
Project:	RRC-Petronila Creek	Lab ID:	0710047-04
Project No:	128161.0000008	Collection Date:	10/03/07 12:45 PM
Lab Order:	0710047	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.177	0.00300	0.0100		mg/L	1	10/09/07 10:24 PM
Calcium	3160	100	100		mg/L	1000	10/11/07 03:56 PM
Iron	6.30	0.0500	0.100		mg/L	1	10/09/07 10:24 PM
Magnesium	436	10.0	10.0		mg/L	100	10/11/07 04:58 PM
Potassium	9.51	1.00	1.00		mg/L	10	10/11/07 05:20 PM
Sodium	4290	100	100		mg/L	1000	10/15/07 08:25 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	35.0	1.50	5.00		mg/L	5	10/04/07 11:56 AM
Chloride	14800	150	500		mg/L	500	10/15/07 01:15 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/04/07 11:56 AM
Sulfate	1320	50.0	150		mg/L	50	10/04/07 03:00 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	245	10.0	20.0		mg/L	1	10/04/07 02:13 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:13 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:13 PM
Alkalinity, Total (As CaCO3)	245	10.0	20.0		mg/L	1	10/04/07 02:13 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.42	0	0		pH Units	1	10/04/07 10:47 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	42400	50.0	50.0		µmhos/cm	5	10/04/07 10:30 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	31400	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-13
Project:	RRC-Petronila Creek	Lab ID:	0710047-05
Project No:	128161.0000008	Collection Date:	10/03/07 01:45 PM
Lab Order:	0710047	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0391	0.00300	0.0100		mg/L	1	10/05/07 01:36 PM
Calcium	604	10.0	10.0		mg/L	100	10/11/07 05:02 PM
Iron	0.392	0.0500	0.100		mg/L	1	10/05/07 01:36 PM
Magnesium	186	10.0	10.0		mg/L	100	10/11/07 05:02 PM
Potassium	15.7	1.00	1.00		mg/L	10	10/09/07 08:37 PM
Sodium	3230	100	100		mg/L	1000	10/15/07 08:29 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	13.6	1.50	5.00		mg/L	5	10/04/07 12:11 PM
Chloride	6120	60.0	200		mg/L	200	10/15/07 01:30 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/04/07 12:11 PM
Sulfate	1370	200	600		mg/L	200	10/15/07 01:30 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	283	10.0	20.0		mg/L	1	10/04/07 02:20 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:20 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:20 PM
Alkalinity, Total (As CaCO3)	283	10.0	20.0		mg/L	1	10/04/07 02:20 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.89	0	0		pH Units	1	10/04/07 10:48 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	19300	20.0	20.0		µmhos/cm	2	10/04/07 10:30 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	12700	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-14
Project:	RRC-Petronila Creek	Lab ID:	0710047-06
Project No:	128161.0000008	Collection Date:	10/03/07 02:10 PM
Lab Order:	0710047	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.101	0.00300	0.0100		mg/L	1	10/09/07 10:28 PM
Calcium	997	10.0	10.0		mg/L	100	10/11/07 05:07 PM
Iron	6.25	0.0500	0.100		mg/L	1	10/09/07 10:28 PM
Magnesium	156	10.0	10.0		mg/L	100	10/11/07 05:07 PM
Potassium	18.8	1.00	1.00		mg/L	10	10/09/07 08:42 PM
Sodium	2870	100	100		mg/L	1000	10/15/07 08:34 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	15.2	1.50	5.00		mg/L	5	10/04/07 01:32 PM
Chloride	6320	60.0	200		mg/L	200	10/15/07 01:44 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/04/07 01:32 PM
Sulfate	1280	200	600		mg/L	200	10/15/07 01:44 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	282	10.0	20.0		mg/L	1	10/04/07 02:36 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:36 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:36 PM
Alkalinity, Total (As CaCO3)	282	10.0	20.0		mg/L	1	10/04/07 02:36 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.59	0	0		pH Units	1	10/04/07 10:52 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	19600	20.0	20.0		µmhos/cm	2	10/04/07 10:30 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	14300	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/18/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-14D
Project:	RRC-Petronila Creek	Lab ID:	0710047-07
Project No:	128161.0000008	Collection Date:	10/03/07 02:10 PM
Lab Order:	0710047	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.105	0.00300	0.0100		mg/L	1	10/09/07 10:33 PM
Calcium	948	10.0	10.0		mg/L	100	10/11/07 05:11 PM
Iron	7.29	0.500	1.00		mg/L	10	10/11/07 05:25 PM
Magnesium	151	10.0	10.0		mg/L	100	10/11/07 05:11 PM
Potassium	21.3	1.00	1.00		mg/L	10	10/09/07 08:46 PM
Sodium	2940	100	100		mg/L	1000	10/15/07 08:38 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	15.3	1.50	5.00		mg/L	5	10/04/07 01:46 PM
Chloride	6310	60.0	200		mg/L	200	10/15/07 02:06 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/04/07 01:46 PM
Sulfate	1270	200	600		mg/L	200	10/15/07 02:06 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	287	10.0	20.0		mg/L	1	10/04/07 02:45 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:45 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/04/07 02:45 PM
Alkalinity, Total (As CaCO3)	287	10.0	20.0		mg/L	1	10/04/07 02:45 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.77	0	0		pH Units	1	10/04/07 10:53 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	19600	20.0	20.0		µmhos/cm	2	10/04/07 10:30 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	14600	10.0	10.0		mg/L	1	10/08/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: ICP-MS3_071005A

Sample ID:	MB-27456	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:23 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.100								
Iron	ND	0.100								
Magnesium	ND	0.100								
Potassium	ND	0.100								
Sodium	ND	0.100								

Sample ID:	LCS-27456	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:27 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.202	0.0100	0.200	0	101	80	120			
Calcium	4.80	0.100	5.00	0	96.0	80	120			
Iron	4.95	0.100	5.00	0	99.0	80	120			
Magnesium	5.24	0.100	5.00	0	105	80	120			
Potassium	5.21	0.100	5.00	0	104	80	120			
Sodium	5.20	0.100	5.00	0	104	80	120			

Sample ID:	LCSD-27456	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	LCSD	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:31 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.199	0.0100	0.200	0	99.4	80	120			
Calcium	4.69	0.100	5.00	0	93.7	80	120			
Iron	4.92	0.100	5.00	0	98.3	80	120			
Magnesium	5.22	0.100	5.00	0	104	80	120			
Potassium	5.15	0.100	5.00	0	103	80	120			
Sodium	5.19	0.100	5.00	0	104	80	120			

Sample ID:	0710047-05B SD	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:40 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0395	0.0500	0	0.0391				0.992	10	
Calcium	534	0.500	0	503				5.81	10	
Iron	0.374	0.500	0	0.392				4.90	10	

Sample ID:	0710047-05B MS	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:44 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.218	0.0100	0.200	0.0391	89.6	80	120			
Calcium	468	0.100	5.00	503	-702	80	120			S
Iron	4.77	0.100	5.00	0.392	87.6	80	120			
Magnesium	152	0.100	5.00	150	34.0	80	120			S
Potassium	18.4	0.100	5.00	14.8	72.0	80	120			S
Sodium	2580	0.100	5.00	2610	-560	80	120			S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071005A

Sample ID:	0710047-05B MSD	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:49 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.230	0.0100	0.200	0.0391	95.6	80	120	5.31	15	
Calcium	488	0.100	5.00	503	-298	80	120	4.22	15	S
Iron	4.79	0.100	5.00	0.392	87.9	80	120	0.335	15	
Magnesium	158	0.100	5.00	150	148	80	120	3.69	15	S
Potassium	18.9	0.100	5.00	14.8	82.0	80	120	2.68	15	
Sodium	2680	0.100	5.00	2610	1500	80	120	3.91	15	S

Sample ID:	0710047-05B PDS	Batch ID:	27456	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:53 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.213	0.0100	0.200	0.0391	86.8	75	125			
Calcium	443	0.100	5.00	503	-1210	75	125			S
Iron	4.62	0.100	5.00	0.392	84.6	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071005A

Sample ID:	ICV1-071005	Batch ID:	R34018	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 11:13 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.100	0.0100	0.100	0	101	90	110			
Calcium	2.34	0.100	2.50	0	93.5	90	110			
Iron	2.64	0.100	2.50	0	106	90	110			
Magnesium	2.54	0.100	2.50	0	101	90	110			
Potassium	2.50	0.100	2.50	0	99.9	90	110			
Sodium	2.61	0.100	2.50	0	104	90	110			

Sample ID:	CCV2-071005	Batch ID:	R34018	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 01:05 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	99.2	90	110			
Calcium	4.75	0.100	5.00	0	95.0	90	110			
Iron	5.05	0.100	5.00	0	101	90	110			
Magnesium	5.21	0.100	5.00	0	104	90	110			
Potassium	5.16	0.100	5.00	0	103	90	110			
Sodium	5.27	0.100	5.00	0	105	90	110			

Sample ID:	CCV3-071005	Batch ID:	R34018	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071005A	Analysis Date:	10/05/07 02:20 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.195	0.0100	0.200	0	97.5	90	110			
Calcium	4.61	0.100	5.00	0	92.2	90	110			
Iron	4.72	0.100	5.00	0	94.5	90	110			
Magnesium	5.03	0.100	5.00	0	101	90	110			
Potassium	5.04	0.100	5.00	0	101	90	110			
Sodium	5.27	0.100	5.00	0	105	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: ICP-MS3_071009A

Sample ID:	ICV2-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 05:36 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.0980	0.0100	0.100	0	98.0	90	110			
Calcium	2.38	0.100	2.50	0	95.4	90	110			
Iron	2.68	0.100	2.50	0	107	90	110			
Magnesium	2.50	0.100	2.50	0	100	90	110			
Potassium	2.47	0.100	2.50	0	98.6	90	110			

Sample ID:	CCV5-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 06:51 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.96	0.100	5.00	0	99.2	90	110			
Iron	5.11	0.100	5.00	0	102	90	110			
Magnesium	5.23	0.100	5.00	0	105	90	110			
Potassium	5.02	0.100	5.00	0	100	90	110			

Sample ID:	CCV6-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 08:15 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	5.21	0.100	5.00	0	104	90	110			
Magnesium	5.31	0.100	5.00	0	106	90	110			
Potassium	5.16	0.100	5.00	0	103	90	110			

Sample ID:	CCV7-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 09:00 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	101	90	110			
Iron	5.09	0.100	5.00	0	102	90	110			
Potassium	5.12	0.100	5.00	0	102	90	110			

Sample ID:	CCV8-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 10:06 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.201	0.0100	0.200	0	100	90	110			
Iron	5.00	0.100	5.00	0	100	90	110			
Potassium	5.26	0.100	5.00	0	105	90	110			

Sample ID:	CCV9-071009	Batch ID:	R34066	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071009A	Analysis Date:	10/09/07 10:46 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.208	0.0100	0.200	0	104	90	110			
Calcium	5.05	0.100	5.00	0	101	90	110			
Iron	5.08	0.100	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071011A

Sample ID:	ICV1-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 12:14 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.103	0.0100	0.100	0	103	90	110			
Calcium	2.39	0.100	2.50	0	95.6	90	110			
Iron	2.47	0.100	2.50	0	98.9	90	110			
Magnesium	2.44	0.100	2.50	0	97.6	90	110			
Potassium	2.41	0.100	2.50	0	96.3	90	110			
Sodium	2.37	0.100	2.50	0	94.8	90	110			

Sample ID:	CCV2-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 02:24 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.202	0.0100	0.200	0	101	90	110			
Calcium	4.82	0.100	5.00	0	96.4	90	110			
Potassium	4.98	0.100	5.00	0	99.7	90	110			
Sodium	4.76	0.100	5.00	0	95.2	90	110			

Sample ID:	CCV3-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 03:31 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.99	0.100	5.00	0	99.8	90	110			
Magnesium	4.82	0.100	5.00	0	96.5	90	110			
Sodium	4.67	0.100	5.00	0	93.4	90	110			

Sample ID:	CCV4-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 04:40 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Calcium	5.00	0.100	5.00	0	99.9	90	110			
Iron	4.75	0.100	5.00	0	94.9	90	110			
Magnesium	4.86	0.100	5.00	0	97.2	90	110			
Potassium	5.06	0.100	5.00	0	101	90	110			
Sodium	4.73	0.100	5.00	0	94.5	90	110			

Sample ID:	CCV5-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 05:47 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.198	0.0100	0.200	0	98.8	90	110			
Calcium	4.97	0.100	5.00	0	99.4	90	110			
Magnesium	4.85	0.100	5.00	0	97.0	90	110			
Potassium	4.98	0.100	5.00	0	99.6	90	110			
Sodium	4.89	0.100	5.00	0	97.8	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071015A

Sample ID:	ICV2-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 07:04 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.39	0.100	2.50	0	95.5	90	110			
Sodium	2.58	0.100	2.50	0	103	90	110			

Sample ID:	CCV6-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 07:54 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.83	0.100	5.00	0	96.5	90	110			
Sodium	5.10	0.100	5.00	0	102	90	110			

Sample ID:	CCV7-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 08:47 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.93	0.100	5.00	0	98.5	90	110			
Sodium	4.98	0.100	5.00	0	99.6	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071004A

Sample ID:	ICV-071004	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_071004A	Analysis Date:	10/04/07 09:05 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	50.8	1.00	50.00	0	102	90	110			
Chloride	25.2	1.00	25.00	0	101	90	110			
Nitrate-N	12.9	0.500	12.50	0	103	90	110			
Sulfate	76.2	3.00	75.00	0	102	90	110			

Sample ID:	MB-071004	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_071004A	Analysis Date:	10/04/07 09:29 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Nitrate-N	ND	0.500								
Sulfate	ND	3.00								

Sample ID:	LCS-071004	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC2_071004A	Analysis Date:	10/04/07 09:43 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.1	1.00	20.00	0	101	90	110			
Chloride	10.0	1.00	10.00	0	100	90	110			
Nitrate-N	5.14	0.500	5.000	0	103	90	110			
Sulfate	30.0	3.00	30.00	0	100	90	110			

Sample ID:	LCSD-071004	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC2_071004A	Analysis Date:	10/04/07 09:58 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	0	101	90	110	0.767	20	
Chloride	10.1	1.00	10.00	0	101	90	110	0.696	20	
Nitrate-N	5.18	0.500	5.000	0	104	90	110	0.839	20	
Sulfate	30.2	3.00	30.00	0	101	90	110	0.508	20	

Sample ID:	0710047-05D MS	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_071004A	Analysis Date:	10/04/07 12:26 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	98.5	5.00	100.0	8.160	90.3	90	110			
Nitrate-N	22.5	2.50	25.00	0	90.0	90	110			

Sample ID:	0710047-05D MSD	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_071004A	Analysis Date:	10/04/07 12:40 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	99.3	5.00	100.0	8.160	91.1	90	110	0.797	20	
Nitrate-N	22.7	2.50	25.00	0	90.8	90	110	0.951	20	

Sample ID:	CCV1-071004	Batch ID:	R33980	TestNo:	E300	Units:	mg/L
SampType:	CCV	Run ID:	IC2_071004A	Analysis Date:	10/04/07 01:10 PM	Prep Date:	10/04/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071004A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.9	1.00	20.00	0	99.4	90	110			
Chloride	10.0	1.00	10.00	0	100	90	110			
Nitrate-N	5.05	0.500	5.000	0	101	90	110			
Sulfate	29.8	3.00	30.00	0	99.3	90	110			

Sample ID:	0710047-05D MS	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_071004A	Analysis Date:	10/04/07 03:36 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	6060	200	2000	3787	114	90	110			S
Sulfate	6940	600	6000	863.4	101	90	110			

Sample ID:	0710047-05D MSD	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_071004A	Analysis Date:	10/04/07 03:51 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	6060	200	2000	3787	114	90	110	0.00066020		S
Sulfate	6960	600	6000	863.4	102	90	110	0.358	20	

Sample ID:	CCV2-071004	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071004A	Analysis Date:	10/04/07 04:05 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	0	102	90	110			
Chloride	10.1	1.00	10.00	0	101	90	110			
Nitrate-N	5.17	0.500	5.000	0	103	90	110			
Sulfate	30.4	3.00	30.00	0	101	90	110			

Sample ID:	CCV3-071004	Batch ID:	R33980	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071004A	Analysis Date:	10/04/07 06:34 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	30.2	3.00	30.00	0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC2_071015A

Sample ID:	ICV-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 09:20 AM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	24.9	1.00	25.00	0	99.7	90	110			
Sulfate	75.4	3.00	75.00	0	101	90	110			

Sample ID:	MB-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_071015A	Analysis Date:	10/15/07 09:39 AM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID:	CCV1-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 12:03 PM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sulfate	30.3	3.00	30.00	0	101	90	110			

Sample ID:	CCV2-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 03:05 PM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071004A

Sample ID:	ICV-071004	Batch ID:	R33978	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	ICV	Run ID:	TITRATOR_071004A	Analysis Date:	10/04/07 10:42 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	9.98	0	10.00	0	99.8	99	101			
Sample ID:	0710047-05A DUP	Batch ID:	R33978	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	DUP	Run ID:	TITRATOR_071004A	Analysis Date:	10/04/07 10:50 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	6.92	0	0	6.890				0.434	15	
Sample ID:	CCV1-071004	Batch ID:	R33978	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	CCV	Run ID:	TITRATOR_071004A	Analysis Date:	10/04/07 10:51 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.02	0	7.000	0	100	97.1	102.9			
Sample ID:	CCV2-071004	Batch ID:	R33978	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	CCV	Run ID:	TITRATOR_071004A	Analysis Date:	10/04/07 10:55 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071004B

Sample ID:	ICV-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	ICV	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 11:56 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	9.20	20.0	0							
Alkalinity, Carbonate (As CaCO3)	90.7	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.9	20.0	100.0	0	99.9	98	102			

Sample ID:	MB-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	MBLK	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 11:57 AM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	LCS	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 12:01 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	52.0	20.0	50.00	0	104	74	129			

Sample ID:	0710032-01C DUP	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 12:24 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	318	20.0	0	316.6				0.494	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	318	20.0	0	316.6				0.494	20	

Sample ID:	CCV1-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 01:33 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	17.0	20.0	0							
Alkalinity, Carbonate (As CaCO3)	82.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.6	20.0	100.0	0	99.6	90	110			

Sample ID:	0710047-05C DUP	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 02:28 PM	Prep Date:	10/04/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	284	20.0	0	283.0				0.263	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	284	20.0	0	283.0				0.263	20	

Sample ID:	CCV2-071004	Batch ID:	R33981	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_071004B	Analysis Date:	10/04/07 02:50 PM	Prep Date:	10/04/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071004B

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	22.9	20.0	0							
Alkalinity, Carbonate (As CaCO3)	75.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	98.7	20.0	100.0	0	98.7	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071004A

Sample ID: ICV-071004	Batch ID: CONDW-10/04/07	TestNo: M2510 B	Units: μmhos/cm
SampType: ICV	Run ID: WC_071004A	Analysis Date: 10/04/07 10:30 AM	Prep Date: 10/04/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12900 10.0 12880	0 100 95 105	

Sample ID: MB-071004	Batch ID: CONDW-10/04/07	TestNo: M2510 B	Units: μmhos/cm
SampType: MBLK	Run ID: WC_071004A	Analysis Date: 10/04/07 10:30 AM	Prep Date: 10/04/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	ND 10.0		

Sample ID: LCS-071004	Batch ID: CONDW-10/04/07	TestNo: M2510 B	Units: μmhos/cm
SampType: LCS	Run ID: WC_071004A	Analysis Date: 10/04/07 10:30 AM	Prep Date: 10/04/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	1360 10.0 1413	0 96.1 95 105	

Sample ID: 0710047-05D DUP	Batch ID: CONDW-10/04/07	TestNo: M2510 B	Units: μmhos/cm
SampType: DUP	Run ID: WC_071004A	Analysis Date: 10/04/07 10:30 AM	Prep Date: 10/04/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	19800 20.0 0	19320	2.35 2

Sample ID: CCV-071004	Batch ID: CONDW-10/04/07	TestNo: M2510 B	Units: μmhos/cm
SampType: CCV	Run ID: WC_071004A	Analysis Date: 10/04/07 10:30 AM	Prep Date: 10/04/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12800 10.0 12880	0 99.5 95 105	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071005A

Sample ID:	MB-071005	Batch ID:	TDS_W-10/05/07	TestNo:	M2540C	Units:	mg/L			
SampType:	MBLK	Run ID:	WC_071005A	Analysis Date:	10/08/07 08:15 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi	ND	10.0								

Sample ID:	LCS-071005	Batch ID:	TDS_W-10/05/07	TestNo:	M2540C	Units:	mg/L			
SampType:	LCS	Run ID:	WC_071005A	Analysis Date:	10/08/07 08:15 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi	731	10.0	745.6	0	98.0	70	126			

Sample ID:	0710032-01C DUP	Batch ID:	TDS_W-10/05/07	TestNo:	M2540C	Units:	mg/L			
SampType:	DUP	Run ID:	WC_071005A	Analysis Date:	10/08/07 08:15 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi	7840	10.0	0	8140				3.75	5	

Sample ID:	0710047-05C DUP	Batch ID:	TDS_W-10/05/07	TestNo:	M2540C	Units:	mg/L			
SampType:	DUP	Run ID:	WC_071005A	Analysis Date:	10/08/07 08:15 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Fi	12900	10.0	0	12720				1.09	5	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710047
 Project: RRC-Petronila Creek

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00
TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO3)	10.0	20.0
Alkalinity, Carbonate (As CaCO3)	10.0	20.0
Alkalinity, Hydroxide (As CaCO3)	10.0	20.0
Alkalinity, Total (As CaCO3)	10.0	20.0
TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.100
Iron	0.0500	0.100
Magnesium	0.100	0.100
Potassium	0.100	0.100
Sodium	0.100	0.100
TestNo: M2510 B Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0
TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:
 MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



October 17, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0710062

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek

Dear Steve Miller:

DHL Analytical received 13 sample(s) on 10/5/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-06-TX



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Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature

10-17-7
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: <i>RRC - Petrova's Creek</i>		Date: <i>10/17/07</i>					
Reviewer Name: Carlos Castro		Laboratory Work Order: <i>0710062</i>					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				<i>R1-01</i>
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			✓		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			✓		
		8) If required for the project, TICs reported?			✓		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			✓		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			✓		<i>27-03</i>
		4) Were MS/MSD RPDs within laboratory QC limits?			✓		<i>27-04</i>
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				<i>210-01</i>
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

- Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- NA = Not applicable.
- NR = Not Reviewed.
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: <u>RRC-Petronila Creek</u>		Date: <u>10/17/07</u>					
Reviewer Name: <u>Carlos Castro</u>		Laboratory Work Order: <u>0710062</u>					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			59-01
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 10/5/2007

Work Order Number 0710062

Received by DU

Checklist completed by: [Signature] 10-5-07

Reviewed by: [Initials] 10/5/07

Carrier name: Hand Delivered

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [checked] No [checked] Not Applicable []

Adjusted? yes Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted Date contacted: Person contacted

Contacted by: Regarding:

Comments: Sample -05B (metals fraction) acidified at login with nitric acid lot #2943

Corrective Action

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710062

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E310.1 - Alkalinity
Method E300 - Anions Analysis
Method M2510 B (18th edition) - Specific Conductance
Method M4500-H+ B (18th edition) - pH of Water
Method M2540C (18th edition) - TDS Analysis

Exception Report R1-01

Samples were received and log-in performed on 10/5/07. A total of 13 samples were received. Nitric acid was added to the metals fraction for sample P-MW-05 at DHL analytical.

Exception Report R7-03 and R7-04

For Metals analysis performed on 10/8/07 and 10/12/07 the matrix spikes and matrix spike duplicate recoveries were out of control limits for some analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spikes and matrix spike duplicates were from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

For Anions analysis performed on 10/5/07 the matrix spike and matrix spike duplicate recoveries were out of control limits for a few analytes. In addition, the matrix spike and matrix spike duplicate had the RPD above control limits for Bromide. These are flagged accordingly. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis some samples were diluted prior to analysis due to the nature of the samples (high specific conductance).

Exception Report S9-01

For Metals analysis performed on 10/12/07 the PDS recovery was above control limits for a few analytes. These are flagged accordingly in the QC summary report. The serial dilution was within control limits for these analytes. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710062

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0710062-01	P-MW-15		10/04/07 09:05 AM	10/05/07
0710062-02	P-MW-19		10/04/07 09:45 AM	10/05/07
0710062-03	P-MW-18		10/04/07 09:55 AM	10/05/07
0710062-04	P-EB-W-10-04-07-1		10/04/07 10:30 AM	10/05/07
0710062-05	P-MW-05		10/04/07 11:45 AM	10/05/07
0710062-06	P-MW-06		10/04/07 12:10 PM	10/05/07
0710062-07	P-MW-06-D		10/04/07 12:10 PM	10/05/07
0710062-08	P-MW-04		10/04/07 12:38 PM	10/05/07
0710062-09	P-MW-07		10/04/07 01:14 PM	10/05/07
0710062-10	P-MW-17		10/04/07 01:15 PM	10/05/07
0710062-11	P-MW-08		10/04/07 01:22 PM	10/05/07
0710062-12	P-MW-09		10/04/07 01:35 PM	10/05/07
0710062-13	P-EB-W-10-04-07-2		10/04/07 01:44 PM	10/05/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710062-01A	P-MW-15	10/04/07 09:05 AM	Aqueous	M4500-H+ B	pH	10/05/07 12:20 PM	R34002
0710062-01B	P-MW-15	10/04/07 09:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-15	10/04/07 09:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-15	10/04/07 09:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-15	10/04/07 09:05 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-01C	P-MW-15	10/04/07 09:05 AM	Aqueous	M2320 B	Alkalinity	10/09/07 11:08 AM	R34048
	P-MW-15	10/04/07 09:05 AM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-01D	P-MW-15	10/04/07 09:05 AM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-15	10/04/07 09:05 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-15	10/04/07 09:05 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-15	10/04/07 09:05 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-15	10/04/07 09:05 AM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-02A	P-MW-19	10/04/07 09:45 AM	Aqueous	M4500-H+ B	pH	10/05/07 12:21 PM	R34002
0710062-02B	P-MW-19	10/04/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-19	10/04/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-19	10/04/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-19	10/04/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-02C	P-MW-19	10/04/07 09:45 AM	Aqueous	M2320 B	Alkalinity	10/09/07 11:25 AM	R34048
	P-MW-19	10/04/07 09:45 AM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-02D	P-MW-19	10/04/07 09:45 AM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-19	10/04/07 09:45 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-19	10/04/07 09:45 AM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-03A	P-MW-18	10/04/07 09:55 AM	Aqueous	M4500-H+ B	pH	10/05/07 12:22 PM	R34002
0710062-03B	P-MW-18	10/04/07 09:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-18	10/04/07 09:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-18	10/04/07 09:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-18	10/04/07 09:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-18	10/04/07 09:55 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-03C	P-MW-18	10/04/07 09:55 AM	Aqueous	M2320 B	Alkalinity	10/09/07 11:30 AM	R34048

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-18	10/04/07 09:55 AM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-03D	P-MW-18	10/04/07 09:55 AM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-18	10/04/07 09:55 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-18	10/04/07 09:55 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-18	10/04/07 09:55 AM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-18	10/04/07 09:55 AM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-04A	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	M4500-H+ B	pH	10/05/07 12:23 PM	R34002
0710062-04B	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-04C	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	M2320 B	Alkalinity	10/09/07 11:32 AM	R34048
	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-04D	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	E300	Anions by IC method - Water	10/05/07	R34008
	P-EB-W-10-04-07-1	10/04/07 10:30 AM	Equipment Blank	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-05A	P-MW-05	10/04/07 11:45 AM	Aqueous	M4500-H+ B	pH	10/05/07 12:24 PM	R34002
0710062-05B	P-MW-05	10/04/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-05	10/04/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-05	10/04/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-05	10/04/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-05	10/04/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-05	10/04/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-05	10/04/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-05C	P-MW-05	10/04/07 11:45 AM	Aqueous	M2320 B	Alkalinity	10/09/07 11:36 AM	R34048
	P-MW-05	10/04/07 11:45 AM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-05D	P-MW-05	10/04/07 11:45 AM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-05	10/04/07 11:45 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-05	10/04/07 11:45 AM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-05	10/04/07 11:45 AM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-05	10/04/07 11:45 AM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-06A	P-MW-06	10/04/07 12:10 PM	Aqueous	M4500-H+ B	pH	10/05/07 12:27 PM	R34002
0710062-06B	P-MW-06	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-06C	P-MW-06	10/04/07 12:10 PM	Aqueous	M2320 B	Alkalinity	10/09/07 11:48 AM	R34048
	P-MW-06	10/04/07 12:10 PM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-06D	P-MW-06	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-06	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-06	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-06	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-06	10/04/07 12:10 PM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-07A	P-MW-06-D	10/04/07 12:10 PM	Aqueous	M4500-H+ B	pH	10/05/07 12:29 PM	R34002
0710062-07B	P-MW-06-D	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-07C	P-MW-06-D	10/04/07 12:10 PM	Aqueous	M2320 B	Alkalinity	10/09/07 11:54 AM	R34048
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-07D	P-MW-06-D	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-06-D	10/04/07 12:10 PM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-08A	P-MW-04	10/04/07 12:38 PM	Aqueous	M4500-H+ B	pH	10/05/07 12:30 PM	R34002
0710062-08B	P-MW-04	10/04/07 12:38 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-04	10/04/07 12:38 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-04	10/04/07 12:38 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-04	10/04/07 12:38 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-04	10/04/07 12:38 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-08C	P-MW-04	10/04/07 12:38 PM	Aqueous	M2320 B	Alkalinity	10/09/07 12:14 PM	R34048
	P-MW-04	10/04/07 12:38 PM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-08D	P-MW-04	10/04/07 12:38 PM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-04	10/04/07 12:38 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-04	10/04/07 12:38 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-04	10/04/07 12:38 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-04	10/04/07 12:38 PM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-09A	P-MW-07	10/04/07 01:14 PM	Aqueous	M4500-H+ B	pH	10/05/07 12:32 PM	R34002
0710062-09B	P-MW-07	10/04/07 01:14 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-07	10/04/07 01:14 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-07	10/04/07 01:14 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-07	10/04/07 01:14 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-09C	P-MW-07	10/04/07 01:14 PM	Aqueous	M2320 B	Alkalinity	10/09/07 12:19 PM	R34048
	P-MW-07	10/04/07 01:14 PM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-09D	P-MW-07	10/04/07 01:14 PM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-07	10/04/07 01:14 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-07	10/04/07 01:14 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-07	10/04/07 01:14 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-07	10/04/07 01:14 PM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-10A	P-MW-17	10/04/07 01:15 PM	Aqueous	M4500-H+ B	pH	10/05/07 12:33 PM	R34002
0710062-10B	P-MW-17	10/04/07 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-17	10/04/07 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-17	10/04/07 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-17	10/04/07 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-MW-17	10/04/07 01:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-10C	P-MW-17	10/04/07 01:15 PM	Aqueous	M2320 B	Alkalinity	10/09/07 12:26 PM	R34048
	P-MW-17	10/04/07 01:15 PM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-10D	P-MW-17	10/04/07 01:15 PM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-17	10/04/07 01:15 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-17	10/04/07 01:15 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-17	10/04/07 01:15 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-17	10/04/07 01:15 PM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-11A	P-MW-08	10/04/07 01:22 PM	Aqueous	M4500-H+ B	pH	10/05/07 12:35 PM	R34002
0710062-11B	P-MW-08	10/04/07 01:22 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-08	10/04/07 01:22 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-08	10/04/07 01:22 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-08	10/04/07 01:22 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-08	10/04/07 01:22 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-11C	P-MW-08	10/04/07 01:22 PM	Aqueous	M2320 B	Alkalinity	10/09/07 12:33 PM	R34048
	P-MW-08	10/04/07 01:22 PM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-11D	P-MW-08	10/04/07 01:22 PM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-08	10/04/07 01:22 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-08	10/04/07 01:22 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-08	10/04/07 01:22 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-08	10/04/07 01:22 PM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-12A	P-MW-09	10/04/07 01:35 PM	Aqueous	M4500-H+ B	pH	10/05/07 12:36 PM	R34002
0710062-12B	P-MW-09	10/04/07 01:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-09	10/04/07 01:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-09	10/04/07 01:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-09	10/04/07 01:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-MW-09	10/04/07 01:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-12C	P-MW-09	10/04/07 01:35 PM	Aqueous	M2320 B	Alkalinity	10/09/07 12:39 PM	R34048
	P-MW-09	10/04/07 01:35 PM	Aqueous	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710062-12D	P-MW-09	10/04/07 01:35 PM	Aqueous	E300	Anions by IC method - Water	10/05/07	R34008
	P-MW-09	10/04/07 01:35 PM	Aqueous	E300	Anions by IC method - Water	10/08/07	R34027
	P-MW-09	10/04/07 01:35 PM	Aqueous	E300	Anions by IC method - Water	10/15/07	R34127
	P-MW-09	10/04/07 01:35 PM	Aqueous	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07
0710062-13A	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	M4500-H+ B	pH	10/05/07 12:37 PM	R34002
0710062-13B	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	SW3005A	Aq Prep Metals : ICP-MS	10/05/07 10:10 AM	27468
0710062-13C	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	M2320 B	Alkalinity	10/09/07 12:47 PM	R34048
	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	M2540C	Total Dissolved Solids	10/10/07 09:45 AM	TDS_W-10/10/07
0710062-13D	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	E300	Anions by IC method - Water	10/05/07	R34008
	P-EB-W-10-04-07-2	10/04/07 01:44 PM	Equipment Blank	M2510 B	Specific Conductance	10/08/07	CONDW-10/08/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710062-01A	P-MW-15	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:20 PM	TITRATOR_071005A
0710062-01B	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:15 PM	ICP-MS3_071011A
	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 10:58 PM	ICP-MS3_071011A
	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 12:57 AM	ICP-MS3_071011A
	P-MW-15	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/12/07 05:50 PM	ICP-MS3_071012A
0710062-01C	P-MW-15	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 11:08 AM	TITRATOR_071009B
	P-MW-15	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-01D	P-MW-15	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 11:46 AM	IC2_071005A
	P-MW-15	Aqueous	E300	Anions by IC method - Water	R34027	100	10/08/07 10:32 AM	IC2_071008A
	P-MW-15	Aqueous	E300	Anions by IC method - Water	R34027	200	10/08/07 11:46 AM	IC2_071008A
	P-MW-15	Aqueous	E300	Anions by IC method - Water	R34027	50	10/08/07 01:00 PM	IC2_071008A
	P-MW-15	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	5	10/08/07 03:05 PM	WC_071008B
0710062-02A	P-MW-19	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:21 PM	TITRATOR_071005A
0710062-02B	P-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:20 PM	ICP-MS3_071011A
	P-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:02 PM	ICP-MS3_071011A
	P-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:01 AM	ICP-MS3_071011A
	P-MW-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/12/07 05:08 PM	ICP-MS3_071012A
0710062-02C	P-MW-19	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 11:25 AM	TITRATOR_071009B
	P-MW-19	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-02D	P-MW-19	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 12:00 PM	IC2_071005A
	P-MW-19	Aqueous	E300	Anions by IC method - Water	R34027	100	10/08/07 10:47 AM	IC2_071008A
	P-MW-19	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	5	10/08/07 03:05 PM	WC_071008B
0710062-03A	P-MW-18	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:22 PM	TITRATOR_071005A
0710062-03B	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:24 PM	ICP-MS3_071011A
	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:07 PM	ICP-MS3_071011A
	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:06 AM	ICP-MS3_071011A
	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/12/07 05:13 PM	ICP-MS3_071012A
	P-MW-18	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/15/07 09:05 PM	ICP-MS3_071015A
0710062-03C	P-MW-18	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 11:30 AM	TITRATOR_071009B

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-18	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-03D	P-MW-18	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 12:15 PM	IC2_071005A
	P-MW-18	Aqueous	E300	Anions by IC method - Water	R34027	100	10/08/07 11:02 AM	IC2_071008A
	P-MW-18	Aqueous	E300	Anions by IC method - Water	R34027	500	10/08/07 01:15 PM	IC2_071008A
	P-MW-18	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 02:21 PM	IC2_071015A
	P-MW-18	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	10	10/08/07 03:05 PM	WC_071008B
0710062-04A	P-EB-W-10-04-07-1	Equipment Blank	M4500-H+ B	pH	R34002	1	10/05/07 12:23 PM	TITRATOR_071005A
0710062-04B	P-EB-W-10-04-07-1	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:29 PM	ICP-MS3_071011A
	P-EB-W-10-04-07-1	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:11 PM	ICP-MS3_071011A
	P-EB-W-10-04-07-1	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:10 AM	ICP-MS3_071011A
	P-EB-W-10-04-07-1	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	1	10/12/07 06:43 PM	ICP-MS3_071012A
0710062-04C	P-EB-W-10-04-07-1	Equipment Blank	M2320 B	Alkalinity	R34048	1	10/09/07 11:32 AM	TITRATOR_071009B
	P-EB-W-10-04-07-1	Equipment Blank	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-04D	P-EB-W-10-04-07-1	Equipment Blank	E300	Anions by IC method - Water	R34008	1	10/05/07 12:30 PM	IC2_071005A
	P-EB-W-10-04-07-1	Equipment Blank	M2510 B	Specific Conductance	CONDW-10/08/07	1	10/08/07 03:05 PM	WC_071008B
0710062-05A	P-MW-05	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:24 PM	TITRATOR_071005A
0710062-05B	P-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1	10/08/07 07:26 PM	ICP-MS3_071008A
	P-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:33 PM	ICP-MS3_071011A
	P-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:15 PM	ICP-MS3_071011A
	P-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:15 AM	ICP-MS3_071011A
	P-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 06:17 PM	ICP-MS3_071012A
	P-MW-05	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/15/07 09:10 PM	ICP-MS3_071015A
0710062-05C	P-MW-05	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 11:36 AM	TITRATOR_071009B
	P-MW-05	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-05D	P-MW-05	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 12:44 PM	IC2_071005A
	P-MW-05	Aqueous	E300	Anions by IC method - Water	R34027	200	10/08/07 12:00 PM	IC2_071008A
	P-MW-05	Aqueous	E300	Anions by IC method - Water	R34027	50	10/08/07 01:44 PM	IC2_071008A
	P-MW-05	Aqueous	E300	Anions by IC method - Water	R34127	200	10/15/07 02:35 PM	IC2_071015A
	P-MW-05	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	2	10/08/07 03:05 PM	WC_071008B

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710062-06A	P-MW-06	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:27 PM	TITRATOR_071005A
0710062-06B	P-MW-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:38 PM	ICP-MS3_071011A
	P-MW-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:20 PM	ICP-MS3_071011A
	P-MW-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:19 AM	ICP-MS3_071011A
	P-MW-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/12/07 05:18 PM	ICP-MS3_071012A
	P-MW-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/15/07 09:14 PM	ICP-MS3_071015A
0710062-06C	P-MW-06	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 11:48 AM	TITRATOR_071009B
	P-MW-06	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-06D	P-MW-06	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 01:46 PM	IC2_071005A
	P-MW-06	Aqueous	E300	Anions by IC method - Water	R34027	1000	10/08/07 11:31 AM	IC2_071008A
	P-MW-06	Aqueous	E300	Anions by IC method - Water	R34027	50	10/08/07 01:30 PM	IC2_071008A
	P-MW-06	Aqueous	E300	Anions by IC method - Water	R34127	1000	10/15/07 02:50 PM	IC2_071015A
	P-MW-06	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	10	10/08/07 03:05 PM	WC_071008B
0710062-07A	P-MW-06-D	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:29 PM	TITRATOR_071005A
0710062-07B	P-MW-06-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:42 PM	ICP-MS3_071011A
	P-MW-06-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:24 PM	ICP-MS3_071011A
	P-MW-06-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:23 AM	ICP-MS3_071011A
	P-MW-06-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/12/07 05:23 PM	ICP-MS3_071012A
	P-MW-06-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/15/07 09:19 PM	ICP-MS3_071015A
0710062-07C	P-MW-06-D	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 11:54 AM	TITRATOR_071009B
	P-MW-06-D	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-07D	P-MW-06-D	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 02:01 PM	IC2_071005A
	P-MW-06-D	Aqueous	E300	Anions by IC method - Water	R34027	1000	10/08/07 02:42 PM	IC2_071008A
	P-MW-06-D	Aqueous	E300	Anions by IC method - Water	R34027	50	10/08/07 03:59 PM	IC2_071008A
	P-MW-06-D	Aqueous	E300	Anions by IC method - Water	R34127	1000	10/15/07 03:27 PM	IC2_071015A
	P-MW-06-D	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	10	10/08/07 03:05 PM	WC_071008B
0710062-08A	P-MW-04	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:30 PM	TITRATOR_071005A
0710062-08B	P-MW-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:47 PM	ICP-MS3_071011A
	P-MW-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:28 PM	ICP-MS3_071011A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:28 AM	ICP-MS3_071011A
	P-MW-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/12/07 05:27 PM	ICP-MS3_071012A
	P-MW-04	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/15/07 09:23 PM	ICP-MS3_071015A
0710062-08C	P-MW-04	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 12:14 PM	TITRATOR_071009B
	P-MW-04	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-08D	P-MW-04	Aqueous	E300	Anions by IC method - Water	R34008	2	10/05/07 02:15 PM	IC2_071005A
	P-MW-04	Aqueous	E300	Anions by IC method - Water	R34027	10	10/08/07 02:59 PM	IC2_071008A
	P-MW-04	Aqueous	E300	Anions by IC method - Water	R34027	1	10/08/07 03:14 PM	IC2_071008A
	P-MW-04	Aqueous	E300	Anions by IC method - Water	R34127	10	10/15/07 03:42 PM	IC2_071015A
	P-MW-04	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	1	10/08/07 03:05 PM	WC_071008B
0710062-09A	P-MW-07	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:32 PM	TITRATOR_071005A
0710062-09B	P-MW-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:51 PM	ICP-MS3_071011A
	P-MW-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:33 PM	ICP-MS3_071011A
	P-MW-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:32 AM	ICP-MS3_071011A
	P-MW-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/12/07 05:32 PM	ICP-MS3_071012A
	P-MW-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	500	10/15/07 09:28 PM	ICP-MS3_071015A
0710062-09C	P-MW-07	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 12:19 PM	TITRATOR_071009B
	P-MW-07	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-09D	P-MW-07	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 02:29 PM	IC2_071005A
	P-MW-07	Aqueous	E300	Anions by IC method - Water	R34027	200	10/08/07 03:28 PM	IC2_071008A
	P-MW-07	Aqueous	E300	Anions by IC method - Water	R34027	50	10/08/07 04:13 PM	IC2_071008A
	P-MW-07	Aqueous	E300	Anions by IC method - Water	R34127	200	10/15/07 03:56 PM	IC2_071015A
	P-MW-07	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	2	10/08/07 03:05 PM	WC_071008B
0710062-10A	P-MW-17	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:33 PM	TITRATOR_071005A
0710062-10B	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 09:56 PM	ICP-MS3_071011A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/11/07 11:37 PM	ICP-MS3_071011A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 01:37 AM	ICP-MS3_071011A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/12/07 05:36 PM	ICP-MS3_071012A
	P-MW-17	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/15/07 09:32 PM	ICP-MS3_071015A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710062-10C	P-MW-17	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 12:26 PM	TITRATOR_071009B
	P-MW-17	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-10D	P-MW-17	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 02:44 PM	IC2_071005A
	P-MW-17	Aqueous	E300	Anions by IC method - Water	R34027	200	10/08/07 04:32 PM	IC2_071008A
	P-MW-17	Aqueous	E300	Anions by IC method - Water	R34027	10	10/08/07 05:01 PM	IC2_071008A
	P-MW-17	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 04:11 PM	IC2_071015A
	P-MW-17	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	5	10/08/07 03:05 PM	WC_071008B
0710062-11A	P-MW-08	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:35 PM	TITRATOR_071005A
0710062-11B	P-MW-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 10:22 PM	ICP-MS3_071011A
	P-MW-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/12/07 12:04 AM	ICP-MS3_071011A
	P-MW-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 12:17 AM	ICP-MS3_071011A
	P-MW-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/12/07 05:41 PM	ICP-MS3_071012A
	P-MW-08	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/15/07 09:37 PM	ICP-MS3_071015A
0710062-11C	P-MW-08	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 12:33 PM	TITRATOR_071009B
	P-MW-08	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-11D	P-MW-08	Aqueous	E300	Anions by IC method - Water	R34008	5	10/05/07 02:58 PM	IC2_071005A
	P-MW-08	Aqueous	E300	Anions by IC method - Water	R34027	500	10/08/07 04:46 PM	IC2_071008A
	P-MW-08	Aqueous	E300	Anions by IC method - Water	R34027	20	10/08/07 05:16 PM	IC2_071008A
	P-MW-08	Aqueous	E300	Anions by IC method - Water	R34127	500	10/15/07 04:26 PM	IC2_071015A
	P-MW-08	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	10	10/08/07 03:05 PM	WC_071008B
0710062-12A	P-MW-09	Aqueous	M4500-H+ B	pH	R34002	1	10/05/07 12:36 PM	TITRATOR_071005A
0710062-12B	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 10:27 PM	ICP-MS3_071011A
	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/12/07 12:08 AM	ICP-MS3_071011A
	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 12:22 AM	ICP-MS3_071011A
	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/12/07 05:45 PM	ICP-MS3_071012A
	P-MW-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27468	500	10/15/07 09:41 PM	ICP-MS3_071015A
0710062-12C	P-MW-09	Aqueous	M2320 B	Alkalinity	R34048	1	10/09/07 12:39 PM	TITRATOR_071009B
	P-MW-09	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-12D	P-MW-09	Aqueous	E300	Anions by IC method - Water	R34008	1	10/05/07 03:13 PM	IC2_071005A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710062

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-MW-09	Aqueous	E300	Anions by IC method - Water	R34027	20	10/08/07 05:30 PM	IC2_071008A
	P-MW-09	Aqueous	E300	Anions by IC method - Water	R34127	50	10/15/07 04:40 PM	IC2_071015A
	P-MW-09	Aqueous	M2510 B	Specific Conductance	CONDW-10/08/07	1	10/08/07 03:05 PM	WC_071008B
0710062-13A	P-EB-W-10-04-07-2	Equipment Blank	M4500-H+ B	pH	R34002	1	10/05/07 12:37 PM	TITRATOR_071005A
0710062-13B	P-EB-W-10-04-07-2	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	1000	10/11/07 10:31 PM	ICP-MS3_071011A
	P-EB-W-10-04-07-2	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	100	10/12/07 12:13 AM	ICP-MS3_071011A
	P-EB-W-10-04-07-2	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	10	10/12/07 12:26 AM	ICP-MS3_071011A
	P-EB-W-10-04-07-2	Equipment Blank	SW6020	Trace Metals: ICP-MS - Water	27468	1	10/12/07 06:48 PM	ICP-MS3_071012A
0710062-13C	P-EB-W-10-04-07-2	Equipment Blank	M2320 B	Alkalinity	R34048	1	10/09/07 12:47 PM	TITRATOR_071009B
	P-EB-W-10-04-07-2	Equipment Blank	M2540C	Total Dissolved Solids	TDS_W-10/10/07	1	10/11/07 08:45 AM	WC_071010B
0710062-13D	P-EB-W-10-04-07-2	Equipment Blank	E300	Anions by IC method - Water	R34008	1	10/05/07 03:28 PM	IC2_071005A
	P-EB-W-10-04-07-2	Equipment Blank	M2510 B	Specific Conductance	CONDW-10/08/07	1	10/08/07 03:05 PM	WC_071008B

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-15
Project:	RRC-Petronila Creek	Lab ID:	0710062-01
Project No:	128161.000008	Collection Date:	10/04/07 09:05 AM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.988	0.0300	0.100		mg/L	10	10/12/07 12:57 AM
Calcium	1700	100	100		mg/L	1000	10/12/07 05:50 PM
Iron	ND	0.500	1.00		mg/L	10	10/12/07 12:57 AM
Magnesium	2.59	1.00	1.00		mg/L	10	10/12/07 12:57 AM
Potassium	75.6	1.00	1.00		mg/L	10	10/12/07 12:57 AM
Sodium	3190	100	100		mg/L	1000	10/11/07 09:15 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	31.2	1.50	5.00		mg/L	5	10/05/07 11:46 AM
Chloride	8710	60.0	200		mg/L	200	10/08/07 11:46 AM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/05/07 11:46 AM
Sulfate	658	5.00	15.0		mg/L	5	10/05/07 11:46 AM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:08 AM
Alkalinity, Carbonate (As CaCO3)	71.2	10.0	20.0		mg/L	1	10/09/07 11:08 AM
Alkalinity, Hydroxide (As CaCO3)	440	10.0	20.0		mg/L	1	10/09/07 11:08 AM
Alkalinity, Total (As CaCO3)	511	10.0	20.0		mg/L	1	10/09/07 11:08 AM
pH		M4500-H+ B		Analyst: JBC			
pH	11.8	0	0		pH Units	1	10/05/07 12:20 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	28400	50.0	50.0		µmhos/cm	5	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	16300	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-19
Project:	RRC-Petronila Creek	Lab ID:	0710062-02
Project No:	128161.000008	Collection Date:	10/04/07 09:45 AM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.188	0.0300	0.100		mg/L	10	10/12/07 01:01 AM
Calcium	1000	10.0	10.0		mg/L	100	10/12/07 05:08 PM
Iron	11.9	0.500	1.00		mg/L	10	10/12/07 01:01 AM
Magnesium	139	10.0	10.0		mg/L	100	10/11/07 11:02 PM
Potassium	9.98	1.00	1.00		mg/L	10	10/12/07 01:01 AM
Sodium	2110	100	100		mg/L	1000	10/11/07 09:20 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	8.57	1.50	5.00		mg/L	5	10/05/07 12:00 PM
Chloride	4910	30.0	100		mg/L	100	10/08/07 10:47 AM
Nitrate-N	0.829	0.500	2.50	J	mg/L	5	10/05/07 12:00 PM
Sulfate	1250	100	300		mg/L	100	10/08/07 10:47 AM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	216	10.0	20.0		mg/L	1	10/09/07 11:25 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:25 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:25 AM
Alkalinity, Total (As CaCO3)	216	10.0	20.0		mg/L	1	10/09/07 11:25 AM
pH		M4500-H+ B		Analyst: JBC			
pH	7.80	0	0		pH Units	1	10/05/07 12:21 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	18400	50.0	50.0		µmhos/cm	5	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	11500	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-18
Project:	RRC-Petronila Creek	Lab ID:	0710062-03
Project No:	128161.000008	Collection Date:	10/04/07 09:55 AM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.128	0.0300	0.100		mg/L	10	10/12/07 01:06 AM
Calcium	2930	100	100		mg/L	1000	10/15/07 09:05 PM
Iron	6.00	0.500	1.00		mg/L	10	10/12/07 01:06 AM
Magnesium	473	10.0	10.0		mg/L	100	10/11/07 11:07 PM
Potassium	32.3	1.00	1.00		mg/L	10	10/12/07 01:06 AM
Sodium	6390	100	100		mg/L	1000	10/15/07 09:05 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	33.6	1.50	5.00		mg/L	5	10/05/07 12:15 PM
Chloride	17300	150	500		mg/L	500	10/08/07 01:15 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/05/07 12:15 PM
Sulfate	1490	100	300		mg/L	100	10/08/07 11:02 AM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	265	10.0	20.0		mg/L	1	10/09/07 11:30 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:30 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:30 AM
Alkalinity, Total (As CaCO3)	265	10.0	20.0		mg/L	1	10/09/07 11:30 AM
pH		M4500-H+ B		Analyst: JBC			
pH	6.69	0	0		pH Units	1	10/05/07 12:22 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	55100	100	100		µmhos/cm	10	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	31300	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-W-10-04-07-1
Project:	RRC-Petronila Creek	Lab ID:	0710062-04
Project No:	128161.000008	Collection Date:	10/04/07 10:30 AM
Lab Order:	0710062	Matrix:	Equipment Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: KDT
Barium	ND	0.00300	0.0100		mg/L	1	10/12/07 06:43 PM
Calcium	ND	0.100	0.100		mg/L	1	10/12/07 06:43 PM
Iron	ND	0.0500	0.100		mg/L	1	10/12/07 06:43 PM
Magnesium	ND	0.100	0.100		mg/L	1	10/12/07 06:43 PM
Potassium	ND	0.100	0.100		mg/L	1	10/12/07 06:43 PM
Sodium	0.144	0.100	0.100		mg/L	1	10/12/07 06:43 PM
Anions by IC method - Water		E300					Analyst: JBC
Bromide	ND	0.300	1.00		mg/L	1	10/05/07 12:30 PM
Chloride	0.380	0.300	1.00	J	mg/L	1	10/05/07 12:30 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	10/05/07 12:30 PM
Sulfate	ND	1.00	3.00		mg/L	1	10/05/07 12:30 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:32 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:32 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:32 AM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:32 AM
pH		M4500-H+ B					Analyst: JBC
pH	8.87	0	0		pH Units	1	10/05/07 12:23 PM
Specific Conductance		M2510 B					Analyst: JBC
Specific Conductance	ND	10.0	10.0		µmhos/cm	1	10/08/07 03:05 PM
Total Dissolved Solids		M2540C					Analyst: JBC
Total Dissolved Solids (Residue, Filterable)	ND	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-05
Project:	RRC-Petronila Creek	Lab ID:	0710062-05
Project No:	128161.000008	Collection Date:	10/04/07 11:45 AM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.311	0.0300	0.100		mg/L	10	10/12/07 01:15 AM
Calcium	2100	100	100		mg/L	1000	10/15/07 09:10 PM
Iron	0.145	0.0500	0.100		mg/L	1	10/08/07 07:26 PM
Magnesium	322	10.0	10.0		mg/L	100	10/11/07 11:15 PM
Potassium	37.7	1.00	1.00		mg/L	10	10/12/07 01:15 AM
Sodium	1650	100	100		mg/L	1000	10/15/07 09:10 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	14.3	1.50	5.00		mg/L	5	10/05/07 12:44 PM
Chloride	8110	60.0	200		mg/L	200	10/15/07 02:35 PM
Nitrate-N	2.15	0.500	2.50	J	mg/L	5	10/05/07 12:44 PM
Sulfate	544	5.00	15.0		mg/L	5	10/05/07 12:44 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	219	10.0	20.0		mg/L	1	10/09/07 11:36 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:36 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:36 AM
Alkalinity, Total (As CaCO3)	219	10.0	20.0		mg/L	1	10/09/07 11:36 AM
pH		M4500-H+ B		Analyst: JBC			
pH	6.58	0	0		pH Units	1	10/05/07 12:24 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	23500	20.0	20.0		µmhos/cm	2	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	16900	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-06
Project:	RRC-Petronila Creek	Lab ID:	0710062-06
Project No:	128161.000008	Collection Date:	10/04/07 12:10 PM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.274	0.0300	0.100		mg/L	10	10/12/07 01:19 AM
Calcium	3620	100	100		mg/L	1000	10/15/07 09:14 PM
Iron	5.97	0.500	1.00		mg/L	10	10/12/07 01:19 AM
Magnesium	644	10.0	10.0		mg/L	100	10/11/07 11:20 PM
Potassium	83.4	1.00	1.00		mg/L	10	10/12/07 01:19 AM
Sodium	7340	100	100		mg/L	1000	10/15/07 09:14 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	78.5	1.50	5.00		mg/L	5	10/05/07 01:46 PM
Chloride	23100	300	1000		mg/L	1000	10/15/07 02:50 PM
Nitrate-N	1.68	0.500	2.50	J	mg/L	5	10/05/07 01:46 PM
Sulfate	1300	50.0	150		mg/L	50	10/08/07 01:30 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	328	10.0	20.0		mg/L	1	10/09/07 11:48 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:48 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:48 AM
Alkalinity, Total (As CaCO3)	328	10.0	20.0		mg/L	1	10/09/07 11:48 AM
pH		M4500-H+ B		Analyst: JBC			
pH	6.27	0	0		pH Units	1	10/05/07 12:27 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	69800	100	100		µmhos/cm	10	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	42600	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-06-D
Project:	RRC-Petronila Creek	Lab ID:	0710062-07
Project No:	128161.000008	Collection Date:	10/04/07 12:10 PM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.270	0.0300	0.100		mg/L	10	10/12/07 01:23 AM
Calcium	3380	100	100		mg/L	1000	10/12/07 05:23 PM
Iron	6.42	0.500	1.00		mg/L	10	10/12/07 01:23 AM
Magnesium	662	10.0	10.0		mg/L	100	10/11/07 11:24 PM
Potassium	80.6	1.00	1.00		mg/L	10	10/12/07 01:23 AM
Sodium	9830	100	100		mg/L	1000	10/11/07 09:42 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	77.1	1.50	5.00		mg/L	5	10/05/07 02:01 PM
Chloride	22800	300	1000		mg/L	1000	10/08/07 02:42 PM
Nitrate-N	1.79	0.500	2.50	J	mg/L	5	10/05/07 02:01 PM
Sulfate	1170	50.0	150		mg/L	50	10/08/07 03:59 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	305	10.0	20.0		mg/L	1	10/09/07 11:54 AM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:54 AM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 11:54 AM
Alkalinity, Total (As CaCO3)	305	10.0	20.0		mg/L	1	10/09/07 11:54 AM
pH		M4500-H+ B		Analyst: JBC			
pH	6.16	0	0		pH Units	1	10/05/07 12:29 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	72300	100	100		µmhos/cm	10	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	42100	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-04
Project:	RRC-Petronila Creek	Lab ID:	0710062-08
Project No:	128161.000008	Collection Date:	10/04/07 12:38 PM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	1.71	0.0300	0.100		mg/L	10	10/12/07 01:28 AM
Calcium	657	10.0	10.0		mg/L	100	10/12/07 05:27 PM
Iron	4.66	0.500	1.00		mg/L	10	10/12/07 01:28 AM
Magnesium	1.96	1.00	1.00		mg/L	10	10/12/07 01:28 AM
Potassium	59.7	1.00	1.00		mg/L	10	10/12/07 01:28 AM
Sodium	163	10.0	10.0		mg/L	100	10/12/07 05:27 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	ND	0.600	2.00		mg/L	2	10/05/07 02:15 PM
Chloride	300	3.00	10.0		mg/L	10	10/08/07 02:59 PM
Nitrate-N	ND	0.200	1.00		mg/L	2	10/05/07 02:15 PM
Sulfate	3.89	1.00	3.00		mg/L	1	10/08/07 03:14 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:14 PM
Alkalinity, Carbonate (As CaCO3)	74.0	10.0	20.0		mg/L	1	10/09/07 12:14 PM
Alkalinity, Hydroxide (As CaCO3)	1730	10.0	20.0		mg/L	1	10/09/07 12:14 PM
Alkalinity, Total (As CaCO3)	1800	10.0	20.0		mg/L	1	10/09/07 12:14 PM
pH		M4500-H+ B		Analyst: JBC			
pH	12.5	0	0		pH Units	1	10/05/07 12:30 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	8310	10.0	10.0		µmhos/cm	1	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	2100	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-07
Project:	RRC-Petronila Creek	Lab ID:	0710062-09
Project No:	128161.000008	Collection Date:	10/04/07 01:14 PM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.843	0.0300	0.100		mg/L	10	10/12/07 01:32 AM
Calcium	633	50.0	50.0		mg/L	500	10/15/07 09:28 PM
Iron	ND	0.500	1.00		mg/L	10	10/12/07 01:32 AM
Magnesium	5.35	1.00	1.00		mg/L	10	10/12/07 01:32 AM
Potassium	52.5	1.00	1.00		mg/L	10	10/12/07 01:32 AM
Sodium	2680	50.0	50.0		mg/L	500	10/15/07 09:28 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	9.65	1.50	5.00		mg/L	5	10/05/07 02:29 PM
Chloride	5410	60.0	200		mg/L	200	10/15/07 03:56 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/05/07 02:29 PM
Sulfate	679	5.00	15.0		mg/L	5	10/05/07 02:29 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:19 PM
Alkalinity, Carbonate (As CaCO3)	61.8	10.0	20.0		mg/L	1	10/09/07 12:19 PM
Alkalinity, Hydroxide (As CaCO3)	240	10.0	20.0		mg/L	1	10/09/07 12:19 PM
Alkalinity, Total (As CaCO3)	302	10.0	20.0		mg/L	1	10/09/07 12:19 PM
pH		M4500-H+ B		Analyst: JBC			
pH	11.7	0	0		pH Units	1	10/05/07 12:32 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	17700	20.0	20.0		µmhos/cm	2	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	10800	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-17
Project:	RRC-Petronila Creek	Lab ID:	0710062-10
Project No:	128161.000008	Collection Date:	10/04/07 01:15 PM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.173	0.0300	0.100		mg/L	10	10/12/07 01:37 AM
Calcium	1530	100	100		mg/L	1000	10/12/07 05:36 PM
Iron	8.33	0.500	1.00		mg/L	10	10/12/07 01:37 AM
Magnesium	287	10.0	10.0		mg/L	100	10/11/07 11:37 PM
Potassium	33.5	1.00	1.00		mg/L	10	10/12/07 01:37 AM
Sodium	4120	100	100		mg/L	1000	10/15/07 09:32 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	19.1	1.50	5.00		mg/L	5	10/05/07 02:44 PM
Chloride	9590	60.0	200		mg/L	200	10/08/07 04:32 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/05/07 02:44 PM
Sulfate	1380	10.0	30.0		mg/L	10	10/08/07 05:01 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	286	10.0	20.0		mg/L	1	10/09/07 12:26 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:26 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:26 PM
Alkalinity, Total (As CaCO3)	286	10.0	20.0		mg/L	1	10/09/07 12:26 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.66	0	0		pH Units	1	10/05/07 12:33 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	31700	50.0	50.0		µmhos/cm	5	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	19100	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-08
Project:	RRC-Petronila Creek	Lab ID:	0710062-11
Project No:	128161.000008	Collection Date:	10/04/07 01:22 PM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0657	0.0300	0.100	J	mg/L	10	10/12/07 12:17 AM
Calcium	1440	100	100		mg/L	1000	10/15/07 09:37 PM
Iron	0.787	0.500	1.00	J	mg/L	10	10/12/07 12:17 AM
Magnesium	304	10.0	10.0		mg/L	100	10/12/07 12:04 AM
Potassium	27.4	1.00	1.00		mg/L	10	10/12/07 12:17 AM
Sodium	6070	100	100		mg/L	1000	10/15/07 09:37 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	26.1	1.50	5.00		mg/L	5	10/05/07 02:58 PM
Chloride	12600	150	500		mg/L	500	10/08/07 04:46 PM
Nitrate-N	3.23	0.500	2.50		mg/L	5	10/05/07 02:58 PM
Sulfate	1840	20.0	60.0		mg/L	20	10/08/07 05:16 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	294	10.0	20.0		mg/L	1	10/09/07 12:33 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:33 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:33 PM
Alkalinity, Total (As CaCO3)	294	10.0	20.0		mg/L	1	10/09/07 12:33 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.21	0	0		pH Units	1	10/05/07 12:35 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	44400	100	100		µmhos/cm	10	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	26100	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 10/17/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-09
Project:	RRC-Petronila Creek	Lab ID:	0710062-12
Project No:	128161.000008	Collection Date:	10/04/07 01:35 PM
Lab Order:	0710062	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0495	0.0300	0.100	J	mg/L	10	10/12/07 12:22 AM
Calcium	430	50.0	50.0		mg/L	500	10/15/07 09:41 PM
Iron	4.45	0.500	1.00		mg/L	10	10/12/07 12:22 AM
Magnesium	58.4	1.00	1.00		mg/L	10	10/12/07 12:22 AM
Potassium	2.69	1.00	1.00		mg/L	10	10/12/07 12:22 AM
Sodium	1050	50.0	50.0		mg/L	500	10/15/07 09:41 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	7.40	0.300	1.00		mg/L	1	10/05/07 03:13 PM
Chloride	748	15.0	50.0		mg/L	50	10/15/07 04:40 PM
Nitrate-N	3.80	0.100	0.500		mg/L	1	10/05/07 03:13 PM
Sulfate	2680	20.0	60.0		mg/L	20	10/08/07 05:30 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	300	10.0	20.0		mg/L	1	10/09/07 12:39 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:39 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:39 PM
Alkalinity, Total (As CaCO3)	300	10.0	20.0		mg/L	1	10/09/07 12:39 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.45	0	0		pH Units	1	10/05/07 12:36 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	6480	10.0	10.0		µmhos/cm	1	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	5220	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-EB-W-10-04-07-2
Project:	RRC-Petronila Creek	Lab ID:	0710062-13
Project No:	128161.000008	Collection Date:	10/04/07 01:44 PM
Lab Order:	0710062	Matrix:	Equipment Blank

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	ND	0.00300	0.0100		mg/L	1	10/12/07 06:48 PM
Calcium	0.184	0.100	0.100		mg/L	1	10/12/07 06:48 PM
Iron	ND	0.0500	0.100		mg/L	1	10/12/07 06:48 PM
Magnesium	ND	0.100	0.100		mg/L	1	10/12/07 06:48 PM
Potassium	ND	0.100	0.100		mg/L	1	10/12/07 06:48 PM
Sodium	0.554	0.100	0.100		mg/L	1	10/12/07 06:48 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	ND	0.300	1.00		mg/L	1	10/05/07 03:28 PM
Chloride	ND	0.300	1.00		mg/L	1	10/05/07 03:28 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	10/05/07 03:28 PM
Sulfate	ND	1.00	3.00		mg/L	1	10/05/07 03:28 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:47 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:47 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:47 PM
Alkalinity, Total (As CaCO3)	ND	10.0	20.0		mg/L	1	10/09/07 12:47 PM
pH		M4500-H+ B		Analyst: JBC			
pH	8.69	0	0		pH Units	1	10/05/07 12:37 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	ND	10.0	10.0		µmhos/cm	1	10/08/07 03:05 PM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	ND	10.0	10.0		mg/L	1	10/11/07 08:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071008A

Sample ID:	MB-27468	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 06:20 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	ND	0.100								
Iron	ND	0.100								
Magnesium	ND	0.100								
Potassium	ND	0.100								
Sodium	ND	0.100								

Sample ID:	LCS-27468	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 06:24 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	80	120			
Calcium	4.85	0.100	5.00	0	97.0	80	120			
Iron	4.73	0.100	5.00	0	94.6	80	120			
Magnesium	4.87	0.100	5.00	0	97.3	80	120			
Potassium	5.03	0.100	5.00	0	101	80	120			
Sodium	4.80	0.100	5.00	0	96.1	80	120			

Sample ID:	LCS-27468	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 06:29 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.187	0.0100	0.200	0	93.4	80	120			
Calcium	4.70	0.100	5.00	0	94.0	80	120			
Iron	4.63	0.100	5.00	0	92.6	80	120			
Magnesium	4.80	0.100	5.00	0	96.0	80	120			
Potassium	4.89	0.100	5.00	0	97.9	80	120			
Sodium	4.73	0.100	5.00	0	94.5	80	120			

Sample ID:	0710062-05B SD	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 07:35 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	0	0.500	0	0.145				0	10	

Sample ID:	0710062-05B MS	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 07:39 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2180	0.100	5.00	2080	2000	80	120			S
Iron	4.68	0.100	5.00	0.145	90.8	80	120			
Magnesium	345	0.100	5.00	311	676	80	120			S
Sodium	1530	0.100	5.00	1420	2340	80	120			S

Sample ID:	0710062-05B MSD	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 07:44 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	1960	0.100	5.00	2080	-2560	80	120	11.0	15	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071008A

Iron	4.15	0.100	5.00	0.145	80.1	80	120	12.0	15	
Magnesium	297	0.100	5.00	311	-288	80	120	15.0	15	S
Sodium	1330	0.100	5.00	1420	-1720	80	120	14.2	15	S

Sample ID:	0710062-05B PDS	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 07:48 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Iron	4.31	0.100	5.00	0.145	83.2	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071008A

Sample ID:	ICV1-071008	Batch ID:	R34035	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 12:33 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.108	0.0100	0.100	0	108	90	110			
Calcium	2.52	0.100	2.50	0	101	90	110			
Iron	2.62	0.100	2.50	0	105	90	110			
Magnesium	2.58	0.100	2.50	0	103	90	110			
Potassium	2.52	0.100	2.50	0	101	90	110			
Sodium	2.65	0.100	2.50	0	106	90	110			

Sample ID:	CCV3-071008	Batch ID:	R34035	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 06:02 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.212	0.0100	0.200	0	106	90	110			
Calcium	5.10	0.100	5.00	0	102	90	110			
Iron	5.16	0.100	5.00	0	103	90	110			
Magnesium	5.16	0.100	5.00	0	103	90	110			
Potassium	5.24	0.100	5.00	0	105	90	110			
Sodium	5.12	0.100	5.00	0	102	90	110			

Sample ID:	CCV4-071008	Batch ID:	R34035	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 07:08 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.214	0.0100	0.200	0	107	90	110			
Calcium	5.08	0.100	5.00	0	102	90	110			
Iron	4.73	0.100	5.00	0	94.6	90	110			
Magnesium	5.16	0.100	5.00	0	103	90	110			
Potassium	5.15	0.100	5.00	0	103	90	110			
Sodium	5.25	0.100	5.00	0	105	90	110			

Sample ID:	CCV5-071008	Batch ID:	R34035	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071008A	Analysis Date:	10/08/07 08:01 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	5.51	0.100	5.00	0	110	90	110			
Iron	5.03	0.100	5.00	0	101	90	110			
Magnesium	5.29	0.100	5.00	0	106	90	110			
Sodium	5.21	0.100	5.00	0	104	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: ICP-MS3_071011A

Sample ID:	ICV1-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 12:14 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.103	0.0100	0.100	0	103	90	110			
Iron	2.47	0.100	2.50	0	98.9	90	110			
Magnesium	2.44	0.100	2.50	0	97.6	90	110			
Potassium	2.41	0.100	2.50	0	96.3	90	110			

Sample ID:	CCV8-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 08:58 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sodium	4.78	0.100	5.00	0	95.5	90	110			

Sample ID:	CCV9-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 10:05 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sodium	4.74	0.100	5.00	0	94.7	90	110			

Sample ID:	CCV10-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 10:40 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium	4.84	0.100	5.00	0	96.8	90	110			

Sample ID:	CCV11-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/11/07 11:51 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.197	0.0100	0.200	0	98.6	90	110			
Iron	4.77	0.100	5.00	0	95.5	90	110			
Magnesium	4.90	0.100	5.00	0	98.1	90	110			
Potassium	5.06	0.100	5.00	0	101	90	110			

Sample ID:	CCV12-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/12/07 12:39 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.195	0.0100	0.200	0	97.5	90	110			
Iron	4.71	0.100	5.00	0	94.2	90	110			
Magnesium	4.90	0.100	5.00	0	98.1	90	110			
Potassium	5.08	0.100	5.00	0	102	90	110			

Sample ID:	CCV13-071011	Batch ID:	R34100	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071011A	Analysis Date:	10/12/07 01:54 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.195	0.0100	0.200	0	97.4	90	110			
Iron	4.68	0.100	5.00	0	93.7	90	110			
Magnesium	4.81	0.100	5.00	0	96.2	90	110			
Potassium	5.01	0.100	5.00	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: ICP-MS3_071012A

Sample ID:	0710062-05B SD	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS3_071012A	Analysis Date:	10/12/07 06:21 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.259	0.500	0	0.258				0.446	10	
Calcium	2130	5.00	0	1990				6.64	10	
Magnesium	376	5.00	0	344				8.81	10	
Potassium	32.6	5.00	0	31.6				3.30	10	
Sodium	1590	5.00	0	1540				2.59	10	

Sample ID:	0710062-05B PDS	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS3_071012A	Analysis Date:	10/12/07 06:25 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	2.31	0.100	2.00	0.258	102	75	125			
Calcium	2240	1.00	50.0	1990	504	75	125			S
Magnesium	408	1.00	50.0	344	127	75	125			S
Potassium	77.6	1.00	50.0	31.6	92.2	75	125			
Sodium	1650	1.00	50.0	1540	216	75	125			S

Sample ID:	0710062-05B MS	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS3_071012A	Analysis Date:	10/12/07 06:30 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.486	0.100	0.200	0.258	114	80	120			
Potassium	37.6	1.00	5.00	31.6	121	80	120			S

Sample ID:	0710062-05B MSD	Batch ID:	27468	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS3_071012A	Analysis Date:	10/12/07 06:34 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.487	0.100	0.200	0.258	115	80	120	0.205	15	
Potassium	38.1	1.00	5.00	31.6	132	80	120	1.35	15	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071012A

Sample ID:	ICV1-071012	Batch ID:	R34129	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071012A	Analysis Date:	10/12/07 04:53 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.104	0.0100	0.100	0	104	90	110			
Calcium	2.39	0.100	2.50	0	95.8	90	110			
Iron	2.66	0.100	2.50	0	106	90	110			
Magnesium	2.50	0.100	2.50	0	100	90	110			
Potassium	2.52	0.100	2.50	0	101	90	110			
Sodium	2.59	0.100	2.50	0	104	90	110			

Sample ID:	CCV1-071012	Batch ID:	R34129	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071012A	Analysis Date:	10/12/07 05:59 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.208	0.0100	0.200	0	104	90	110			
Calcium	4.80	0.100	5.00	0	96.0	90	110			
Iron	4.88	0.100	5.00	0	97.6	90	110			
Magnesium	5.02	0.100	5.00	0	100	90	110			
Potassium	4.90	0.100	5.00	0	97.9	90	110			
Sodium	5.15	0.100	5.00	0	103	90	110			

Sample ID:	CCV2-071012	Batch ID:	R34129	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071012A	Analysis Date:	10/12/07 06:52 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.206	0.0100	0.200	0	103	90	110			
Calcium	4.91	0.100	5.00	0	98.2	90	110			
Iron	4.96	0.100	5.00	0	99.2	90	110			
Magnesium	5.08	0.100	5.00	0	102	90	110			
Potassium	4.93	0.100	5.00	0	98.6	90	110			
Sodium	5.15	0.100	5.00	0	103	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071015A

Sample ID:	ICV2-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 07:04 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.39	0.100	2.50	0	95.5	90	110			
Sodium	2.58	0.100	2.50	0	103	90	110			

Sample ID:	CCV7-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 08:47 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.93	0.100	5.00	0	98.5	90	110			
Sodium	4.98	0.100	5.00	0	99.6	90	110			

Sample ID:	CCV8-071015	Batch ID:	R34134	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071015A	Analysis Date:	10/15/07 09:55 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.75	0.100	5.00	0	95.0	90	110			
Sodium	4.90	0.100	5.00	0	98.0	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071005A

Sample ID:	ICV-071005	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_071005A	Analysis Date:	10/05/07 09:06 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	52.4	1.00	50.00	0	105	90	110			
Chloride	26.0	1.00	25.00	0	104	90	110			
Nitrate-N	13.3	0.500	12.50	0	106	90	110			
Sulfate	78.7	3.00	75.00	0	105	90	110			

Sample ID:	MB-071005	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_071005A	Analysis Date:	10/05/07 09:32 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Nitrate-N	ND	0.500								
Sulfate	ND	3.00								

Sample ID:	LCS-071005	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC2_071005A	Analysis Date:	10/05/07 09:47 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.7	1.00	20.00	0	98.5	90	110			
Chloride	10.1	1.00	10.00	0	101	90	110			
Nitrate-N	5.01	0.500	5.000	0	100	90	110			
Sulfate	29.3	3.00	30.00	0	97.7	90	110			

Sample ID:	LCSD-071005	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC2_071005A	Analysis Date:	10/05/07 10:01 AM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.7	1.00	20.00	0	98.4	90	110	0.115	20	
Chloride	9.79	1.00	10.00	0	97.9	90	110	2.78	20	
Nitrate-N	4.99	0.500	5.000	0	99.8	90	110	0.360	20	
Sulfate	29.5	3.00	30.00	0	98.4	90	110	0.618	20	

Sample ID:	0710062-05D MS	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_071005A	Analysis Date:	10/05/07 12:59 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	101	5.00	100.0	8.610	92.3	90	110			
Nitrate-N	24.1	2.50	25.00	1.280	91.5	90	110			
Sulfate	483	15.0	150.0	326.5	105	90	110			

Sample ID:	0710062-05D MSD	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_071005A	Analysis Date:	10/05/07 01:13 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	106	5.00	100.0	8.610	97.6	90	110	5.12	20	
Nitrate-N	25.3	2.50	25.00	1.280	96.0	90	110	4.63	20	
Sulfate	526	15.0	150.0	326.5	133	90	110	8.55	20	S

Sample ID:	CCV1-071005	Batch ID:	R34008	TestNo:	E300	Units:	mg/L
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Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071005A

SampType:	CCV	Run ID:	IC2_071005A	Analysis Date:	10/05/07 01:28 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.8	1.00	20.00	0	99.2	90	110			
Chloride	10.1	1.00	10.00	0	101	90	110			
Nitrate-N	5.03	0.500	5.000	0	101	90	110			
Sulfate	29.8	3.00	30.00	0	99.4	90	110			

Sample ID:	0710062-12D MS	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_071005A	Analysis Date:	10/05/07 03:42 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.0	1.00	20.00	4.440	72.6	90	110			S
Nitrate-N	6.60	0.500	5.000	2.280	86.3	90	110			S

Sample ID:	0710062-12D MSD	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_071005A	Analysis Date:	10/05/07 03:57 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	25.3	1.00	20.00	4.440	104	90	110	28.7	20	R
Nitrate-N	7.38	0.500	5.000	2.280	102	90	110	11.2	20	

Sample ID:	CCV2-071005	Batch ID:	R34008	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071005A	Analysis Date:	10/05/07 04:12 PM	Prep Date:	10/05/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	20.3	1.00	20.00	0	102	90	110			
Chloride	10.2	1.00	10.00	0	102	90	110			
Nitrate-N	5.13	0.500	5.000	0	103	90	110			
Sulfate	30.8	3.00	30.00	0	103	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC2_071008A

Sample ID:	Batch ID:	TestNo:	Units:
ICV-071008	R34027	E300	mg/L
SampType: ICV	Run ID: IC2_071008A	Analysis Date: 10/08/07 09:25 AM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Chloride	25.2	1.00	25.00
Sulfate	76.3	3.00	75.00
		Ref Val	%REC
		0	101
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
		90	110
		Qual	
MB-071008	R34027	E300	mg/L
SampType: MBLK	Run ID: IC2_071008A	Analysis Date: 10/08/07 09:47 AM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Chloride	ND	1.00	
Sulfate	ND	3.00	
LCS-071008	R34027	E300	mg/L
SampType: LCS	Run ID: IC2_071008A	Analysis Date: 10/08/07 10:02 AM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Chloride	9.96	1.00	10.00
Sulfate	30.0	3.00	30.00
		Ref Val	%REC
		0	99.6
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
		90	110
		Qual	
LCSD-071008	R34027	E300	mg/L
SampType: LCSD	Run ID: IC2_071008A	Analysis Date: 10/08/07 10:16 AM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Chloride	9.97	1.00	10.00
Sulfate	30.0	3.00	30.00
		Ref Val	%REC
		0	99.7
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
		0.188	20
		Qual	
0710062-05D MS	R34027	E300	mg/L
SampType: MS	Run ID: IC2_071008A	Analysis Date: 10/08/07 12:15 PM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Chloride	6990	200	2000
		Ref Val	%REC
		5055	96.7
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
		Qual	
0710062-05D MSD	R34027	E300	mg/L
SampType: MSD	Run ID: IC2_071008A	Analysis Date: 10/08/07 12:29 PM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Chloride	6990	200	2000
		Ref Val	%REC
		5055	96.5
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
		0.0455	20
		Qual	
CCV1-071008	R34027	E300	mg/L
SampType: CCV	Run ID: IC2_071008A	Analysis Date: 10/08/07 12:44 PM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Chloride	9.99	1.00	10.00
Sulfate	30.1	3.00	30.00
		Ref Val	%REC
		0	99.9
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
		90	110
		Qual	
0710062-05D MS	R34027	E300	mg/L
SampType: MS	Run ID: IC2_071008A	Analysis Date: 10/08/07 01:59 PM	Prep Date: 10/08/07
Analyte	Result	RL	SPK value
Sulfate	1830	150	1500
		Ref Val	%REC
		335.8	99.5
		LowLimit	HighLimit
		90	110
		%RPD	RPD Limit
		Qual	
0710062-05D MSD	R34027	E300	mg/L
SampType: MSD	Run ID: IC2_071008A	Analysis Date: 10/08/07 02:14 PM	Prep Date: 10/08/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071008A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate	1840	150	1500	335.8	100	90	110	0.665	20	

Sample ID:	CCV2-071008	Batch ID:	R34027	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071008A	Analysis Date:	10/08/07 03:42 PM	Prep Date:	10/08/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.2	3.00	30.00	0	101	90	110			

Sample ID:	0710062-12D MS	Batch ID:	R34027	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC2_071008A	Analysis Date:	10/08/07 06:00 PM	Prep Date:	10/08/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	647	20.0	200.0	451.6	97.8	90	110			
Sulfate	2240	60.0	600.0	1608	105	90	110			

Sample ID:	0710062-12D MSD	Batch ID:	R34027	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC2_071008A	Analysis Date:	10/08/07 06:14 PM	Prep Date:	10/08/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	646	20.0	200.0	451.6	97.1	90	110	0.210	20	
Sulfate	2230	60.0	600.0	1608	104	90	110	0.121	20	

Sample ID:	CCV3-071008	Batch ID:	R34027	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071008A	Analysis Date:	10/08/07 06:29 PM	Prep Date:	10/08/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sulfate	30.1	3.00	30.00	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC2_071015A

Sample ID:	ICV-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 09:20 AM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	24.9	1.00	25.00	0	99.7	90	110			
Sample ID:	MB-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC2_071015A	Analysis Date:	10/15/07 09:39 AM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	ND	1.00								
Sample ID:	CCV1-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 12:03 PM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.2	1.00	10.00	0	102	90	110			
Sample ID:	CCV2-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 03:05 PM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Sample ID:	CCV3-071015	Batch ID:	R34127	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC2_071015A	Analysis Date:	10/15/07 04:55 PM	Prep Date:	10/15/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071005A

Sample ID:	Batch ID:	TestNo:	Units:
ICV-071005	R34002	M4500-H+ B	pH Units
SampType: ICV	Run ID: TITRATOR_071005A	Analysis Date: 10/05/07 12:19 PM	Prep Date: 10/05/07
Analyte	Result	RL	SPK value
pH	9.97	0	10.00
		Ref Val	%REC
		0	99.7
		LowLimit	HighLimit
		99	101
		%RPD	RPD Limit
			Qual
Sample ID: 0710062-05A DUP	Batch ID: R34002	TestNo: M4500-H+ B	Units: pH Units
SampType: DUP	Run ID: TITRATOR_071005A	Analysis Date: 10/05/07 12:25 PM	Prep Date: 10/05/07
Analyte	Result	RL	SPK value
pH	6.60	0	0
		Ref Val	%REC
		6.580	
		LowLimit	HighLimit
		%RPD	RPD Limit
		0.303	15
		Qual	
Sample ID: CCV1-071005	Batch ID: R34002	TestNo: M4500-H+ B	Units: pH Units
SampType: CCV	Run ID: TITRATOR_071005A	Analysis Date: 10/05/07 12:28 PM	Prep Date: 10/05/07
Analyte	Result	RL	SPK value
pH	7.04	0	7.000
		Ref Val	%REC
		0	101
		LowLimit	HighLimit
		97.1	102.9
		%RPD	RPD Limit
			Qual
Sample ID: 0710062-13A DUP	Batch ID: R34002	TestNo: M4500-H+ B	Units: pH Units
SampType: DUP	Run ID: TITRATOR_071005A	Analysis Date: 10/05/07 12:39 PM	Prep Date: 10/05/07
Analyte	Result	RL	SPK value
pH	8.53	0	0
		Ref Val	%REC
		8.690	
		LowLimit	HighLimit
		%RPD	RPD Limit
		1.86	15
		Qual	
Sample ID: CCV2-071005	Batch ID: R34002	TestNo: M4500-H+ B	Units: pH Units
SampType: CCV	Run ID: TITRATOR_071005A	Analysis Date: 10/05/07 12:40 PM	Prep Date: 10/05/07
Analyte	Result	RL	SPK value
pH	7.06	0	7.000
		Ref Val	%REC
		0	101
		LowLimit	HighLimit
		97.1	102.9
		%RPD	RPD Limit
			Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071009B

Sample ID:	ICV-071009	Batch ID:	R34048	TestNo:	M2320 B	Units:	mg/L			
SampType:	ICV	Run ID:	TITRATOR_071009B	Analysis Date:	10/09/07 10:35 AM	Prep Date:	10/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	9.44	20.0	0							
Alkalinity, Carbonate (As CaCO3)	91.0	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	100	20.0	100.0	0	100	98	102			

Sample ID:	MB-071009	Batch ID:	R34048	TestNo:	M2320 B	Units:	mg/L			
SampType:	MBLK	Run ID:	TITRATOR_071009B	Analysis Date:	10/09/07 10:50 AM	Prep Date:	10/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-071009	Batch ID:	R34048	TestNo:	M2320 B	Units:	mg/L			
SampType:	LCS	Run ID:	TITRATOR_071009B	Analysis Date:	10/09/07 10:54 AM	Prep Date:	10/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	52.3	20.0	50.00	0	105	74	129			

Sample ID:	0710062-05C DUP	Batch ID:	R34048	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071009B	Analysis Date:	10/09/07 11:41 AM	Prep Date:	10/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	217	20.0	0	218.7				0.871	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	217	20.0	0	218.7				0.871	20	

Sample ID:	CCV1-071009	Batch ID:	R34048	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_071009B	Analysis Date:	10/09/07 11:59 AM	Prep Date:	10/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	14.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	85.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.9	20.0	100.0	0	99.9	90	110			

Sample ID:	0710062-12C DUP	Batch ID:	R34048	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071009B	Analysis Date:	10/09/07 12:44 PM	Prep Date:	10/09/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	302	20.0	0	299.8				0.849	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	302	20.0	0	299.8				0.849	20	

Sample ID:	CCV2-071009	Batch ID:	R34048	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_071009B	Analysis Date:	10/09/07 12:52 PM	Prep Date:	10/09/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071009B

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	16.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	83.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	100	20.0	100.0	0	100	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071008B

Sample ID: ICV-071008	Batch ID: CONDW-10/08/07	TestNo: M2510 B	Units: μmhos/cm
SampType: ICV	Run ID: WC_071008B	Analysis Date: 10/08/07 03:05 PM	Prep Date: 10/08/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12900 10.0 12880	0 100 95 105	

Sample ID: MB-071008	Batch ID: CONDW-10/08/07	TestNo: M2510 B	Units: μmhos/cm
SampType: MBLK	Run ID: WC_071008B	Analysis Date: 10/08/07 03:05 PM	Prep Date: 10/08/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	ND 10.0		

Sample ID: LCS-071008	Batch ID: CONDW-10/08/07	TestNo: M2510 B	Units: μmhos/cm
SampType: LCS	Run ID: WC_071008B	Analysis Date: 10/08/07 03:05 PM	Prep Date: 10/08/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	1390 10.0 1413	0 98.2 95 105	

Sample ID: 0710062-05D DUP	Batch ID: CONDW-10/08/07	TestNo: M2510 B	Units: μmhos/cm
SampType: DUP	Run ID: WC_071008B	Analysis Date: 10/08/07 03:05 PM	Prep Date: 10/08/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	23300 20.0 0	23480	0.770 2

Sample ID: CCV1-071008	Batch ID: CONDW-10/08/07	TestNo: M2510 B	Units: μmhos/cm
SampType: CCV	Run ID: WC_071008B	Analysis Date: 10/08/07 03:05 PM	Prep Date: 10/08/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12700 10.0 12880	0 98.8 95 105	

Sample ID: CCV2-071008	Batch ID: CONDW-10/08/07	TestNo: M2510 B	Units: μmhos/cm
SampType: CCV	Run ID: WC_071008B	Analysis Date: 10/08/07 03:05 PM	Prep Date: 10/08/07
Analyte	Result RL SPK value	Ref Val %REC LowLimit HighLimit	%RPD RPD Limit Qual
Specific Conductance	12700 10.0 12880	0 98.8 95 105	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071010B

Sample ID: MB-071010	Batch ID: TDS_W-10/10/07	TestNo: M2540C	Units: mg/L
SampType: MBLK	Run ID: WC_071010B	Analysis Date: 10/11/07 08:45 AM	Prep Date: 10/10/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	ND	10.0	

Sample ID: LCS-071010	Batch ID: TDS_W-10/10/07	TestNo: M2540C	Units: mg/L
SampType: LCS	Run ID: WC_071010B	Analysis Date: 10/11/07 08:45 AM	Prep Date: 10/10/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	743	10.0 745.6	0 99.7 70 126

Sample ID: 0710062-05C DUP	Batch ID: TDS_W-10/10/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071010B	Analysis Date: 10/11/07 08:45 AM	Prep Date: 10/10/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	16600	10.0 0	16880 1.55 5

Sample ID: 0710075-02B DUP	Batch ID: TDS_W-10/10/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071010B	Analysis Date: 10/11/07 08:45 AM	Prep Date: 10/10/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	1500	10.0 0	1488 0.536 5

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710062
 Project: RRC-Petronila Creek

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00
TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO ₃)	10.0	20.0
Alkalinity, Carbonate (As CaCO ₃)	10.0	20.0
Alkalinity, Hydroxide (As CaCO ₃)	10.0	20.0
Alkalinity, Total (As CaCO ₃)	10.0	20.0
TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.100
Iron	0.0500	0.100
Magnesium	0.100	0.100
Potassium	0.100	0.100
Sodium	0.100	0.100
TestNo: M2510 B Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0
TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:

MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP



November 07, 2007

Steve Miller
TRC Environmental Corp.
505 East Huntland Drive Suite 250
Austin, Texas 78752

Order No: 0710232

TEL: (512) 329-6080
FAX: (512) 329-8750

RE: RRC-Petronila Creek

Dear Steve Miller:

DHL Analytical received 14 sample(s) on 10/26/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-06-TX



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City



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6 Special Handling SATURDAY Delivery HOLD Weekday at FedEx Location HOLD Saturday at FedEx Location

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Company TRC Address SOS E. HUNTLAND City AUSTIN State TX ZIP 78752

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Company DILL ANALYTICAL

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City AUSTIN State TX ZIP 78752

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Company BILL ANALYTICAL

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FedEx First Overnight
 FedEx 2Day
 FedEx 3Day

4b Express Freight Service

FedEx 1Day Freight
 FedEx 2Day Freight
 FedEx 3Day Freight

Packages over 150 lbs.

FedEx 1Day Freight
 FedEx 2Day Freight
 FedEx 3Day Freight

5 Packaging

FedEx Envelope*
 FedEx Pak*
 FedEx Tube
 Other

6 Special Handling

SATURDAY Delivery
 HOLD Weekday at FedEx Location
 HOLD Saturday at FedEx Location

Does this shipment contain dangerous goods?

No
 Yes

Payment Bill to:
 Sender
 Recipient
 Third Party
 Credit Card
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Total Packages 1
Total Weight 15.1
Total Declared Value \$.00

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Laboratory Data Package Signature Page

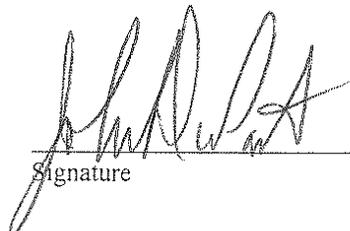
This data package consists of:

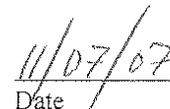
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager


Signature


Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: <i>RRC - Petronilla Creek</i>		Date: <i>11/7/07</i>					
Reviewer Name: Carlos Castro		Laboratory Work Order: <i>0710232</i>					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				<i>2(-01)</i>
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			✓		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			✓		
		8) If required for the project, TICs reported?			✓		
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			✓		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			✓		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?		✓			<i>RS-04</i>
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			<i>RS-03</i>
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				<i>RS-01</i>
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: <i>RDC - Petroville Creek</i>		Date: <i>11/7/07</i>					
Reviewer Name: <i>Carlos Castro</i>		Laboratory Work Order: <i>0710232</i>					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?		✓			<i>S2-01</i>
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			<i>S9-01</i>
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
 3 NA = Not applicable.
 4 NR = Not Reviewed.
 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Sample Receipt Checklist

Client Name TRC Environmental Corp.

Date Received: 10/26/2007

Work Order Number 0710232

Received by DU

Checklist completed by: [Signature]
Signature

10.26.07
Date

Reviewed by [JD]
Initials

10/26/07
Date

Carrier name: FedEx 1day

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? No Checked by JB

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710232

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method E310.1 - Alkalinity
Method E300 - Anions Analysis
Method M2510 B (18th edition) - Specific Conductance
Method M4500-H+ B (18th edition) - pH of Water
Method M2540C (18th edition) - TDS Analysis

Exception Report R1-01

Samples were received and log-in performed on 10/26/07. A total of 14 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R5-04

For Metals analysis performed on 11/1/07 Calcium was detected above the reporting limit in the method blank. All samples were detected greater than 10 times the amount in the blank. No further corrective actions were taken.

Exception Report R7-03

For Metals analysis performed on 11/1/07 the matrix spike and matrix spike duplicate recoveries were out of control limits for Calcium and Sodium. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Anions analysis performed on 10/29/07 and 10/31/07 the matrix spikes and matrix spike duplicate recoveries were out of control limits for a few analytes. These are flagged accordingly. The reference sample selected for the matrix spikes and matrix spike duplicates was from this work order. The LCSs were within control limits for these analytes. No further corrective actions were taken.

Exception Report R10-01

For Anions analysis sample P-D-07 was diluted prior to analysis for Nitrate-N due to the nature of the sample (high Chloride content).

Exception Report S2-01

For Anions analysis performed on 10/26/07 the ending CCV4 was not run due to instrument failure. The sample could not be re-analyzed due to the HoldTime.

Exception Report S9-01

For Metals analysis performed on 11/1/07 the PDS recovery was slightly below control limits for Magnesium. This is flagged accordingly in the QC summary report. The serial dilution was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
Project: RRC-Petronila Creek
Lab Order: 0710232

CASE NARRATIVE

For Metals analysis performed on 11/1/07 the RPD for the serial dilution was slightly above control limits for Sodium. This is flagged accordingly. The PDS was within control limits for this analyte. No further corrective actions were taken.

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0710232-01	P-CS-06		10/25/07 09:45 AM	10/26/07
0710232-02	P-D-01		10/25/07 10:20 AM	10/26/07
0710232-03	P-D-02		10/25/07 10:45 AM	10/26/07
0710232-04	P-CS-02		10/25/07 11:45 AM	10/26/07
0710232-05	P-D-07		10/25/07 12:35 PM	10/26/07
0710232-06	P-D-06		10/25/07 12:55 PM	10/26/07
0710232-07	P-D-09		10/25/07 01:25 PM	10/26/07
0710232-08	P-D-09-D		10/25/07 01:25 PM	10/26/07
0710232-09	P-CS-14		10/25/07 02:00 PM	10/26/07
0710232-10	P-CS-11		10/25/07 03:05 PM	10/26/07
0710232-11	P-CS-19		10/25/07 03:45 PM	10/26/07
0710232-12	P-CS-25		10/25/07 04:15 PM	10/26/07
0710232-13	P-CS-33		10/25/07 04:40 PM	10/26/07
0710232-14	P-MW-03		10/26/07 11:00 AM	10/26/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710232-01A	P-CS-06	10/25/07 09:45 AM	Aqueous	M4500-H+ B	pH	10/26/07 10:42 AM	R34316
0710232-01B	P-CS-06	10/25/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-06	10/25/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-06	10/25/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-06	10/25/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-06	10/25/07 09:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-01C	P-CS-06	10/25/07 09:45 AM	Aqueous	M2320 B	Alkalinity	10/31/07 01:02 PM	R34405
	P-CS-06	10/25/07 09:45 AM	Aqueous	M2540C	Total Dissolved Solids	10/29/07 10:50 AM	TDS_W-10/29/07
0710232-01D	P-CS-06	10/25/07 09:45 AM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34317
	P-CS-06	10/25/07 09:45 AM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-06	10/25/07 09:45 AM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-06	10/25/07 09:45 AM	Aqueous	M2510 B	Specific Conductance	10/29/07	CONDW-10/29/07
0710232-02A	P-D-01	10/25/07 10:20 AM	Aqueous	M4500-H+ B	pH	10/26/07 10:43 AM	R34316
0710232-02B	P-D-01	10/25/07 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-01	10/25/07 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-01	10/25/07 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-01	10/25/07 10:20 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-02C	P-D-01	10/25/07 10:20 AM	Aqueous	M2320 B	Alkalinity	10/31/07 01:08 PM	R34405
	P-D-01	10/25/07 10:20 AM	Aqueous	M2540C	Total Dissolved Solids	10/29/07 10:50 AM	TDS_W-10/29/07
0710232-02D	P-D-01	10/25/07 10:20 AM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34317
	P-D-01	10/25/07 10:20 AM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-01	10/25/07 10:20 AM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-01	10/25/07 10:20 AM	Aqueous	M2510 B	Specific Conductance	10/29/07	CONDW-10/29/07
0710232-03A	P-D-02	10/25/07 10:45 AM	Aqueous	M4500-H+ B	pH	10/26/07 10:44 AM	R34316
0710232-03B	P-D-02	10/25/07 10:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-02	10/25/07 10:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-02	10/25/07 10:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-03C	P-D-02	10/25/07 10:45 AM	Aqueous	M2320 B	Alkalinity	10/31/07 01:13 PM	R34405
	P-D-02	10/25/07 10:45 AM	Aqueous	M2540C	Total Dissolved Solids	10/29/07 10:50 AM	TDS_W-10/29/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710232-03D	P-D-02	10/25/07 10:45 AM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34317
	P-D-02	10/25/07 10:45 AM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-02	10/25/07 10:45 AM	Aqueous	M2510 B	Specific Conductance	10/29/07	CONDW-10/29/07
0710232-04A	P-CS-02	10/25/07 11:45 AM	Aqueous	M4500-H+ B	pH	10/26/07 10:45 AM	R34316
0710232-04B	P-CS-02	10/25/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-02	10/25/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-02	10/25/07 11:45 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-04C	P-CS-02	10/25/07 11:45 AM	Aqueous	M2320 B	Alkalinity	10/31/07 01:24 PM	R34405
	P-CS-02	10/25/07 11:45 AM	Aqueous	M2540C	Total Dissolved Solids	10/29/07 10:50 AM	TDS_W-10/29/07
0710232-04D	P-CS-02	10/25/07 11:45 AM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34317
	P-CS-02	10/25/07 11:45 AM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-02	10/25/07 11:45 AM	Aqueous	M2510 B	Specific Conductance	10/29/07	CONDW-10/29/07
0710232-05A	P-D-07	10/25/07 12:35 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:48 AM	R34316
0710232-05B	P-D-07	10/25/07 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-07	10/25/07 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-07	10/25/07 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-07	10/25/07 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-07	10/25/07 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-05C	P-D-07	10/25/07 12:35 PM	Aqueous	M2320 B	Alkalinity	10/31/07 01:33 PM	R34405
	P-D-07	10/25/07 12:35 PM	Aqueous	M2540C	Total Dissolved Solids	10/29/07 10:50 AM	TDS_W-10/29/07
0710232-05D	P-D-07	10/25/07 12:35 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34317
	P-D-07	10/25/07 12:35 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-07	10/25/07 12:35 PM	Aqueous	E300	Anions by IC method - Water	10/31/07	R34395
	P-D-07	10/25/07 12:35 PM	Aqueous	M2510 B	Specific Conductance	10/29/07	CONDW-10/29/07
0710232-06A	P-D-06	10/25/07 12:55 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:49 AM	R34316
0710232-06B	P-D-06	10/25/07 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-06	10/25/07 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-06	10/25/07 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-06	10/25/07 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-D-06	10/25/07 12:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-06C	P-D-06	10/25/07 12:55 PM	Aqueous	M2320 B	Alkalinity	10/31/07 01:37 PM	R34405
	P-D-06	10/25/07 12:55 PM	Aqueous	M2540C	Total Dissolved Solids	10/29/07 10:50 AM	TDS_W-10/29/07
0710232-06D	P-D-06	10/25/07 12:55 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-D-06	10/25/07 12:55 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-06	10/25/07 12:55 PM	Aqueous	M2510 B	Specific Conductance	10/29/07	CONDW-10/29/07
0710232-07A	P-D-09	10/25/07 01:25 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:51 AM	R34316
0710232-07B	P-D-09	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-09	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-09	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-07C	P-D-09	10/25/07 01:25 PM	Aqueous	M2320 B	Alkalinity	10/31/07 01:45 PM	R34405
	P-D-09	10/25/07 01:25 PM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07
0710232-07D	P-D-09	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34317
	P-D-09	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-D-09	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-09	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-09	10/25/07 01:25 PM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07
0710232-08A	P-D-09-D	10/25/07 01:25 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:53 AM	R34316
0710232-08B	P-D-09-D	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-09-D	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-09-D	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-09-D	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-D-09-D	10/25/07 01:25 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-08C	P-D-09-D	10/25/07 01:25 PM	Aqueous	M2320 B	Alkalinity	10/31/07 01:53 PM	R34405
	P-D-09-D	10/25/07 01:25 PM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07
0710232-08D	P-D-09-D	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34317
	P-D-09-D	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-D-09-D	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-D-09-D	10/25/07 01:25 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-D-09-D	10/25/07 01:25 PM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07
0710232-09A	P-CS-14	10/25/07 02:00 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:54 AM	R34316
0710232-09B	P-CS-14	10/25/07 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-14	10/25/07 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-14	10/25/07 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-14	10/25/07 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-14	10/25/07 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-09C	P-CS-14	10/25/07 02:00 PM	Aqueous	M2320 B	Alkalinity	10/31/07 01:59 PM	R34405
	P-CS-14	10/25/07 02:00 PM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07
0710232-09D	P-CS-14	10/25/07 02:00 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-CS-14	10/25/07 02:00 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-14	10/25/07 02:00 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-14	10/25/07 02:00 PM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07
0710232-10A	P-CS-11	10/25/07 03:05 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:55 AM	R34316
0710232-10B	P-CS-11	10/25/07 03:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-11	10/25/07 03:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-11	10/25/07 03:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-11	10/25/07 03:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-11	10/25/07 03:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-10C	P-CS-11	10/25/07 03:05 PM	Aqueous	M2320 B	Alkalinity	10/31/07 02:04 PM	R34405
	P-CS-11	10/25/07 03:05 PM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07
0710232-10D	P-CS-11	10/25/07 03:05 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-CS-11	10/25/07 03:05 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-11	10/25/07 03:05 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-11	10/25/07 03:05 PM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07
0710232-11A	P-CS-19	10/25/07 03:45 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:57 AM	R34316
0710232-11B	P-CS-19	10/25/07 03:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-19	10/25/07 03:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
	P-CS-19	10/25/07 03:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-19	10/25/07 03:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-11C	P-CS-19	10/25/07 03:45 PM	Aqueous	M2320 B	Alkalinity	10/31/07 03:34 PM	R34405
	P-CS-19	10/25/07 03:45 PM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07
0710232-11D	P-CS-19	10/25/07 03:45 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-CS-19	10/25/07 03:45 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-19	10/25/07 03:45 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-19	10/25/07 03:45 PM	Aqueous	E300	Anions by IC method - Water	10/31/07	R34395
	P-CS-19	10/25/07 03:45 PM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07
0710232-12A	P-CS-25	10/25/07 04:15 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:58 AM	R34316
0710232-12B	P-CS-25	10/25/07 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-25	10/25/07 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-25	10/25/07 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-25	10/25/07 04:15 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-12C	P-CS-25	10/25/07 04:15 PM	Aqueous	M2320 B	Alkalinity	10/31/07 02:20 PM	R34405
	P-CS-25	10/25/07 04:15 PM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07
0710232-12D	P-CS-25	10/25/07 04:15 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-CS-25	10/25/07 04:15 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-25	10/25/07 04:15 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-25	10/25/07 04:15 PM	Aqueous	E300	Anions by IC method - Water	10/31/07	R34395
	P-CS-25	10/25/07 04:15 PM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07
0710232-13A	P-CS-33	10/25/07 04:40 PM	Aqueous	M4500-H+ B	pH	10/26/07 10:59 AM	R34316
0710232-13B	P-CS-33	10/25/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-33	10/25/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-33	10/25/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-33	10/25/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-CS-33	10/25/07 04:40 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-13C	P-CS-33	10/25/07 04:40 PM	Aqueous	M2320 B	Alkalinity	10/31/07 02:30 PM	R34405
	P-CS-33	10/25/07 04:40 PM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0710232-13D	P-CS-33	10/25/07 04:40 PM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-CS-33	10/25/07 04:40 PM	Aqueous	E300	Anions by IC method - Water	10/29/07	R34370
	P-CS-33	10/25/07 04:40 PM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07
0710232-14A	P-MW-03	10/26/07 11:00 AM	Aqueous	M4500-H+ B	pH	10/29/07 12:45 PM	R34343
0710232-14B	P-MW-03	10/26/07 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-MW-03	10/26/07 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-MW-03	10/26/07 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-MW-03	10/26/07 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
	P-MW-03	10/26/07 11:00 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/30/07 08:50 AM	27734
0710232-14C	P-MW-03	10/26/07 11:00 AM	Aqueous	M2320 B	Alkalinity	10/31/07 02:37 PM	R34405
	P-MW-03	10/26/07 11:00 AM	Aqueous	M2540C	Total Dissolved Solids	10/31/07	TDS_W-10/31/07
0710232-14D	P-MW-03	10/26/07 11:00 AM	Aqueous	E300	Anions by IC method - Water	10/26/07	R34333
	P-MW-03	10/26/07 11:00 AM	Aqueous	E300	Anions by IC method - Water	10/31/07	R34395
	P-MW-03	10/26/07 11:00 AM	Aqueous	E300	Anions by IC method - Water	10/31/07	R34395
	P-MW-03	10/26/07 11:00 AM	Aqueous	E300	Anions by IC method - Water	10/31/07	R34395
	P-MW-03	10/26/07 11:00 AM	Aqueous	M2510 B	Specific Conductance	10/31/07	CONDW-10/31/07

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710232-01A	P-CS-06	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:42 AM	TITRATOR_071026B
0710232-01B	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 04:37 PM	ICP-MS2_071101A
	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 06:32 PM	ICP-MS2_071101A
	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 08:30 PM	ICP-MS2_071101A
	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/02/07 02:53 PM	ICP-MS2_071102A
	P-CS-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/03/07 04:59 AM	ICP-MS3_071102A
0710232-01C	P-CS-06	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:02 PM	TITRATOR_071031A
	P-CS-06	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/29/07	1	10/30/07 08:15 AM	WC_071029B
0710232-01D	P-CS-06	Aqueous	E300	Anions by IC method - Water	R34317	1	10/26/07 11:35 AM	IC_071026A
	P-CS-06	Aqueous	E300	Anions by IC method - Water	R34370	500	10/29/07 12:46 PM	IC_071029A
	P-CS-06	Aqueous	E300	Anions by IC method - Water	R34370	50	10/29/07 05:42 PM	IC_071029A
	P-CS-06	Aqueous	M2510 B	Specific Conductance	CONDW-10/29/07	2	10/29/07 09:50 AM	WC_071029A
0710232-02A	P-D-01	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:43 AM	TITRATOR_071026B
0710232-02B	P-D-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/01/07 02:51 PM	ICP-MS2_071101A
	P-D-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:10 PM	ICP-MS2_071101A
	P-D-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 06:37 PM	ICP-MS2_071101A
	P-D-01	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 09:31 PM	ICP-MS2_071101A
0710232-02C	P-D-01	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:08 PM	TITRATOR_071031A
	P-D-01	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/29/07	1	10/30/07 08:15 AM	WC_071029B
0710232-02D	P-D-01	Aqueous	E300	Anions by IC method - Water	R34317	5	10/26/07 11:50 AM	IC_071026A
	P-D-01	Aqueous	E300	Anions by IC method - Water	R34370	500	10/29/07 01:02 PM	IC_071029A
	P-D-01	Aqueous	E300	Anions by IC method - Water	R34370	20	10/29/07 05:57 PM	IC_071029A
	P-D-01	Aqueous	M2510 B	Specific Conductance	CONDW-10/29/07	5	10/29/07 09:50 AM	WC_071029A
0710232-03A	P-D-02	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:44 AM	TITRATOR_071026B
0710232-03B	P-D-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:05 PM	ICP-MS2_071101A
	P-D-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 06:41 PM	ICP-MS2_071101A
	P-D-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 08:35 PM	ICP-MS2_071101A
0710232-03C	P-D-02	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:13 PM	TITRATOR_071031A
	P-D-02	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/29/07	1	10/30/07 08:15 AM	WC_071029B

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710232-03D	P-D-02	Aqueous	E300	Anions by IC method - Water	R34317	1	10/26/07 12:06 PM	IC_071026A
	P-D-02	Aqueous	E300	Anions by IC method - Water	R34370	100	10/29/07 01:17 PM	IC_071029A
	P-D-02	Aqueous	M2510 B	Specific Conductance	CONDW-10/29/07	1	10/29/07 09:50 AM	WC_071029A
0710232-04A	P-CS-02	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:45 AM	TITRATOR_071026B
0710232-04B	P-CS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 03:01 PM	ICP-MS2_071101A
	P-CS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 07:43 PM	ICP-MS2_071101A
	P-CS-02	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	5	11/02/07 03:50 PM	ICP-MS2_071102A
0710232-04C	P-CS-02	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:24 PM	TITRATOR_071031A
	P-CS-02	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/29/07	1	10/30/07 08:15 AM	WC_071029B
0710232-04D	P-CS-02	Aqueous	E300	Anions by IC method - Water	R34317	1	10/26/07 12:21 PM	IC_071026A
	P-CS-02	Aqueous	E300	Anions by IC method - Water	R34370	20	10/29/07 01:33 PM	IC_071029A
	P-CS-02	Aqueous	M2510 B	Specific Conductance	CONDW-10/29/07	1	10/29/07 09:50 AM	WC_071029A
0710232-05A	P-D-07	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:48 AM	TITRATOR_071026B
0710232-05B	P-D-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/01/07 02:56 PM	ICP-MS2_071101A
	P-D-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	5000	11/01/07 03:50 PM	ICP-MS2_071101A
	P-D-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:15 PM	ICP-MS2_071101A
	P-D-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 09:36 PM	ICP-MS2_071101A
	P-D-07	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/02/07 03:55 PM	ICP-MS2_071102A
0710232-05C	P-D-07	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:33 PM	TITRATOR_071031A
	P-D-07	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/29/07	1	10/30/07 08:15 AM	WC_071029B
0710232-05D	P-D-07	Aqueous	E300	Anions by IC method - Water	R34317	5	10/26/07 01:08 PM	IC_071026A
	P-D-07	Aqueous	E300	Anions by IC method - Water	R34370	50	10/29/07 02:20 PM	IC_071029A
	P-D-07	Aqueous	E300	Anions by IC method - Water	R34395	500	10/31/07 03:29 PM	IC_071031A
	P-D-07	Aqueous	M2510 B	Specific Conductance	CONDW-10/29/07	10	10/29/07 09:50 AM	WC_071029A
0710232-06A	P-D-06	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:49 AM	TITRATOR_071026B
0710232-06B	P-D-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:26 PM	ICP-MS2_071101A
	P-D-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 08:39 PM	ICP-MS2_071101A
	P-D-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/02/07 02:58 PM	ICP-MS2_071102A
	P-D-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/02/07 03:59 PM	ICP-MS2_071102A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-D-06	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/03/07 05:04 AM	ICP-MS3_071102A
0710232-06C	P-D-06	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:37 PM	TITRATOR_071031A
	P-D-06	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/29/07	1	10/30/07 08:15 AM	WC_071029B
0710232-06D	P-D-06	Aqueous	E300	Anions by IC method - Water	R34370	200	10/29/07 02:51 PM	IC_071029A
	P-D-06	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 09:03 PM	IC2_071026A
	P-D-06	Aqueous	M2510 B	Specific Conductance	CONDW-10/29/07	1	10/29/07 09:50 AM	WC_071029A
0710232-07A	P-D-09	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:51 AM	TITRATOR_071026B
0710232-07B	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/01/07 03:54 PM	ICP-MS2_071101A
	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:31 PM	ICP-MS2_071101A
	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 09:40 PM	ICP-MS2_071101A
	P-D-09	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/02/07 04:04 PM	ICP-MS2_071102A
0710232-07C	P-D-09	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:45 PM	TITRATOR_071031A
	P-D-09	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B
0710232-07D	P-D-09	Aqueous	E300	Anions by IC method - Water	R34317	5	10/26/07 03:54 PM	IC_071026A
	P-D-09	Aqueous	E300	Anions by IC method - Water	R34370	200	10/29/07 03:07 PM	IC_071029A
	P-D-09	Aqueous	E300	Anions by IC method - Water	R34370	5	10/29/07 07:16 PM	IC_071029A
	P-D-09	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 09:18 PM	IC2_071026A
	P-D-09	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	5	10/31/07 10:00 AM	WC_071031A
0710232-08A	P-D-09-D	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:53 AM	TITRATOR_071026B
0710232-08B	P-D-09-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:35 PM	ICP-MS2_071101A
	P-D-09-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 08:44 PM	ICP-MS2_071101A
	P-D-09-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/02/07 03:03 PM	ICP-MS2_071102A
	P-D-09-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/02/07 04:09 PM	ICP-MS2_071102A
	P-D-09-D	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/03/07 05:08 AM	ICP-MS3_071102A
0710232-08C	P-D-09-D	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:53 PM	TITRATOR_071031A
	P-D-09-D	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B
0710232-08D	P-D-09-D	Aqueous	E300	Anions by IC method - Water	R34317	5	10/26/07 04:10 PM	IC_071026A
	P-D-09-D	Aqueous	E300	Anions by IC method - Water	R34370	200	10/29/07 03:23 PM	IC_071029A
	P-D-09-D	Aqueous	E300	Anions by IC method - Water	R34370	5	10/29/07 07:32 PM	IC_071029A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-D-09-D	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 09:32 PM	IC2_071026A
	P-D-09-D	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	5	10/31/07 10:00 AM	WC_071031A
0710232-09A	P-CS-14	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:54 AM	TITRATOR_071026B
0710232-09B	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:40 PM	ICP-MS2_071101A
	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 06:46 PM	ICP-MS2_071101A
	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 08:49 PM	ICP-MS2_071101A
	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/02/07 03:07 PM	ICP-MS2_071102A
	P-CS-14	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/03/07 05:13 AM	ICP-MS3_071102A
0710232-09C	P-CS-14	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 01:59 PM	TITRATOR_071031A
	P-CS-14	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B
0710232-09D	P-CS-14	Aqueous	E300	Anions by IC method - Water	R34370	1000	10/29/07 03:39 PM	IC_071029A
	P-CS-14	Aqueous	E300	Anions by IC method - Water	R34370	100	10/29/07 06:13 PM	IC_071029A
	P-CS-14	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 09:47 PM	IC2_071026A
	P-CS-14	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	5	10/31/07 10:00 AM	WC_071031A
0710232-10A	P-CS-11	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:55 AM	TITRATOR_071026B
0710232-10B	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:45 PM	ICP-MS2_071101A
	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 06:51 PM	ICP-MS2_071101A
	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 08:53 PM	ICP-MS2_071101A
	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/02/07 03:12 PM	ICP-MS2_071102A
	P-CS-11	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/03/07 05:17 AM	ICP-MS3_071102A
0710232-10C	P-CS-11	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 02:04 PM	TITRATOR_071031A
	P-CS-11	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B
0710232-10D	P-CS-11	Aqueous	E300	Anions by IC method - Water	R34370	500	10/29/07 03:54 PM	IC_071029A
	P-CS-11	Aqueous	E300	Anions by IC method - Water	R34370	20	10/29/07 06:29 PM	IC_071029A
	P-CS-11	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 10:02 PM	IC2_071026A
	P-CS-11	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	5	10/31/07 10:00 AM	WC_071031A
0710232-11A	P-CS-19	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:57 AM	TITRATOR_071026B
0710232-11B	P-CS-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/01/07 04:04 PM	ICP-MS2_071101A
	P-CS-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:49 PM	ICP-MS2_071101A

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
	P-CS-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 06:56 PM	ICP-MS2_071101A
	P-CS-19	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 09:45 PM	ICP-MS2_071101A
0710232-11C	P-CS-19	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 03:34 PM	TITRATOR_071031A
	P-CS-19	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B
0710232-11D	P-CS-19	Aqueous	E300	Anions by IC method - Water	R34370	1000	10/29/07 04:10 PM	IC_071029A
	P-CS-19	Aqueous	E300	Anions by IC method - Water	R34370	100	10/29/07 06:45 PM	IC_071029A
	P-CS-19	Aqueous	E300	Anions by IC method - Water	R34395	10	10/31/07 02:44 PM	IC_071031A
	P-CS-19	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 10:16 PM	IC2_071026A
	P-CS-19	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	5	10/31/07 10:00 AM	WC_071031A
0710232-12A	P-CS-25	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:58 AM	TITRATOR_071026B
0710232-12B	P-CS-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/01/07 04:09 PM	ICP-MS2_071101A
	P-CS-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 05:54 PM	ICP-MS2_071101A
	P-CS-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 07:00 PM	ICP-MS2_071101A
	P-CS-25	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 09:50 PM	ICP-MS2_071101A
0710232-12C	P-CS-25	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 02:20 PM	TITRATOR_071031A
	P-CS-25	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B
0710232-12D	P-CS-25	Aqueous	E300	Anions by IC method - Water	R34370	1000	10/29/07 04:24 PM	IC_071029A
	P-CS-25	Aqueous	E300	Anions by IC method - Water	R34370	100	10/29/07 07:00 PM	IC_071029A
	P-CS-25	Aqueous	E300	Anions by IC method - Water	R34395	10	10/31/07 02:59 PM	IC_071031A
	P-CS-25	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 10:31 PM	IC2_071026A
	P-CS-25	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	5	10/31/07 10:00 AM	WC_071031A
0710232-13A	P-CS-33	Aqueous	M4500-H+ B	pH	R34316	1	10/26/07 10:59 AM	TITRATOR_071026B
0710232-13B	P-CS-33	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 06:27 PM	ICP-MS2_071101A
	P-CS-33	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 07:05 PM	ICP-MS2_071101A
	P-CS-33	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 08:58 PM	ICP-MS2_071101A
	P-CS-33	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/02/07 03:17 PM	ICP-MS2_071102A
	P-CS-33	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	500	11/03/07 05:22 AM	ICP-MS3_071102A
0710232-13C	P-CS-33	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 02:30 PM	TITRATOR_071031A
	P-CS-33	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B

CLIENT: TRC Environmental Corp.
 Project: RRC-Petronila Creek
 Lab Order: 0710232

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0710232-13D	P-CS-33	Aqueous	E300	Anions by IC method - Water	R34370	200	10/29/07 04:39 PM	IC_071029A
	P-CS-33	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 11:59 PM	IC2_071026A
	P-CS-33	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	1	10/31/07 10:00 AM	WC_071031A
0710232-14A	P-MW-03	Aqueous	M4500-H+ B	pH	R34343	1	10/29/07 12:45 PM	TITRATOR_071029A
0710232-14B	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	100	11/01/07 06:23 PM	ICP-MS2_071101A
	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	10	11/01/07 07:33 PM	ICP-MS2_071101A
	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1	11/01/07 09:02 PM	ICP-MS2_071101A
	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/02/07 03:22 PM	ICP-MS2_071102A
	P-MW-03	Aqueous	SW6020	Trace Metals: ICP-MS - Water	27734	1000	11/03/07 05:26 AM	ICP-MS3_071102A
0710232-14C	P-MW-03	Aqueous	M2320 B	Alkalinity	R34405	1	10/31/07 02:37 PM	TITRATOR_071031A
	P-MW-03	Aqueous	M2540C	Total Dissolved Solids	TDS_W-10/31/07	1	10/31/07 10:45 AM	WC_071031B
0710232-14D	P-MW-03	Aqueous	E300	Anions by IC method - Water	R34395	1000	10/31/07 11:51 AM	IC_071031A
	P-MW-03	Aqueous	E300	Anions by IC method - Water	R34395	100	10/31/07 12:38 PM	IC_071031A
	P-MW-03	Aqueous	E300	Anions by IC method - Water	R34395	5	10/31/07 01:41 PM	IC_071031A
	P-MW-03	Aqueous	E300	Anions by IC method - Water	R34333	1	10/26/07 08:34 PM	IC2_071026A
	P-MW-03	Aqueous	M2510 B	Specific Conductance	CONDW-10/31/07	5	10/31/07 10:00 AM	WC_071031A

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-06
Project:	RRC-Petronila Creek	Lab ID:	0710232-01
Project No:	128161-8	Collection Date:	10/25/07 09:45 AM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.434	0.00300	0.0100		mg/L	1	11/01/07 08:30 PM
Calcium	857	10.0	10.0		mg/L	100	11/01/07 04:37 PM
Iron	0.131	0.0500	0.100		mg/L	1	11/01/07 08:30 PM
Magnesium	181	10.0	10.0		mg/L	100	11/01/07 04:37 PM
Potassium	21.4	1.00	1.00		mg/L	10	11/01/07 06:32 PM
Sodium	2710	100	100		mg/L	1000	11/03/07 04:59 AM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	10.4	0.300	1.00		mg/L	1	10/26/07 11:35 AM
Chloride	5510	150	500		mg/L	500	10/29/07 12:46 PM
Nitrate-N	2.15	0.100	0.500		mg/L	1	10/26/07 11:35 AM
Sulfate	1090	50.0	150		mg/L	50	10/29/07 05:42 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	191	10.0	20.0		mg/L	1	10/31/07 01:02 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:02 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:02 PM
Alkalinity, Total (As CaCO3)	191	10.0	20.0		mg/L	1	10/31/07 01:02 PM
pH		M4500-H+ B		Analyst: JBC			
pH	8.01	0	0		pH Units	1	10/26/07 10:42 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	18100	20.0	20.0		µmhos/cm	2	10/29/07 09:50 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	12400	10.0	10.0		mg/L	1	10/30/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-01
Project:	RRC-Petronila Creek	Lab ID:	0710232-02
Project No:	128161-8	Collection Date:	10/25/07 10:20 AM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.308	0.00300	0.0100		mg/L	1	11/01/07 09:31 PM
Calcium	1500	100	100		mg/L	1000	11/01/07 02:51 PM
Iron	0.650	0.0500	0.100		mg/L	1	11/01/07 09:31 PM
Magnesium	296	10.0	10.0		mg/L	100	11/01/07 05:10 PM
Potassium	33.2	1.00	1.00		mg/L	10	11/01/07 06:37 PM
Sodium	8780	100	100		mg/L	1000	11/01/07 02:51 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	37.8	1.50	5.00		mg/L	5	10/26/07 11:50 AM
Chloride	16200	150	500		mg/L	500	10/29/07 01:02 PM
Nitrate-N	2.35	0.500	2.50	J	mg/L	5	10/26/07 11:50 AM
Sulfate	2780	20.0	60.0		mg/L	20	10/29/07 05:57 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	186	10.0	20.0		mg/L	1	10/31/07 01:08 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:08 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:08 PM
Alkalinity, Total (As CaCO3)	186	10.0	20.0		mg/L	1	10/31/07 01:08 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.49	0	0		pH Units	1	10/26/07 10:43 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	50700	50.0	50.0		µmhos/cm	5	10/29/07 09:50 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	31600	10.0	10.0		mg/L	1	10/30/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-02
Project:	RRC-Petronila Creek	Lab ID:	0710232-03
Project No:	128161-8	Collection Date:	10/25/07 10:45 AM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.316	0.00300	0.0100		mg/L	1	11/01/07 08:35 PM
Calcium	318	10.0	10.0		mg/L	100	11/01/07 05:05 PM
Iron	0.102	0.0500	0.100		mg/L	1	11/01/07 08:35 PM
Magnesium	36.1	1.00	1.00		mg/L	10	11/01/07 06:41 PM
Potassium	12.3	1.00	1.00		mg/L	10	11/01/07 06:41 PM
Sodium	980	10.0	10.0		mg/L	100	11/01/07 05:05 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	3.22	0.300	1.00		mg/L	1	10/26/07 12:06 PM
Chloride	1200	30.0	100		mg/L	100	10/29/07 01:17 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	10/26/07 12:06 PM
Sulfate	1370	100	300		mg/L	100	10/29/07 01:17 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	223	10.0	20.0		mg/L	1	10/31/07 01:13 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:13 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:13 PM
Alkalinity, Total (As CaCO3)	223	10.0	20.0		mg/L	1	10/31/07 01:13 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.63	0	0		pH Units	1	10/26/07 10:44 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	6070	10.0	10.0		µmhos/cm	1	10/29/07 09:50 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	4260	10.0	10.0		mg/L	1	10/30/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-02
Project:	RRC-Petronila Creek	Lab ID:	0710232-04
Project No:	128161-8	Collection Date:	10/25/07 11:45 AM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.249	0.00300	0.0100		mg/L	1	11/01/07 07:43 PM
Calcium	172	10.0	10.0		mg/L	100	11/01/07 03:01 PM
Iron	0.100	0.0500	0.100		mg/L	1	11/01/07 07:43 PM
Magnesium	19.3	0.500	0.500		mg/L	5	11/02/07 03:50 PM
Potassium	13.4	0.500	0.500		mg/L	5	11/02/07 03:50 PM
Sodium	174	10.0	10.0		mg/L	100	11/01/07 03:01 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	1.85	0.300	1.00		mg/L	1	10/26/07 12:21 PM
Chloride	472	6.00	20.0		mg/L	20	10/29/07 01:33 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	10/26/07 12:21 PM
Sulfate	173	20.0	60.0		mg/L	20	10/29/07 01:33 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	210	10.0	20.0		mg/L	1	10/31/07 01:24 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:24 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:24 PM
Alkalinity, Total (As CaCO3)	210	10.0	20.0		mg/L	1	10/31/07 01:24 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.40	0	0		pH Units	1	10/26/07 10:45 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	1980	10.0	10.0		µmhos/cm	1	10/29/07 09:50 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	1300	10.0	10.0		mg/L	1	10/30/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-07
Project:	RRC-Petronila Creek	Lab ID:	0710232-05
Project No:	128161-8	Collection Date:	10/25/07 12:35 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.250	0.00300	0.0100		mg/L	1	11/01/07 09:36 PM
Calcium	2460	100	100		mg/L	1000	11/01/07 02:56 PM
Iron	3.09	0.0500	0.100		mg/L	1	11/01/07 09:36 PM
Magnesium	554	10.0	10.0		mg/L	100	11/01/07 05:15 PM
Potassium	44.6	1.00	1.00		mg/L	10	11/02/07 03:55 PM
Sodium	12000	500	500		mg/L	5000	11/01/07 03:50 PM
Anions by IC method - Water		E300		Analyst: JBC			
Bromide	56.4	1.50	5.00		mg/L	5	10/26/07 01:08 PM
Chloride	24200	150	500		mg/L	500	10/31/07 03:29 PM
Nitrate-N	ND	0.500	2.50		mg/L	5	10/26/07 01:08 PM
Sulfate	2730	50.0	150		mg/L	50	10/29/07 02:20 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	118	10.0	20.0		mg/L	1	10/31/07 01:33 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:33 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:33 PM
Alkalinity, Total (As CaCO3)	118	10.0	20.0		mg/L	1	10/31/07 01:33 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.80	0	0		pH Units	1	10/26/07 10:48 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	74000	100	100		µmhos/cm	10	10/29/07 09:50 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	47400	10.0	10.0		mg/L	1	10/30/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-06
Project:	RRC-Petronila Creek	Lab ID:	0710232-06
Project No:	128161-8	Collection Date:	10/25/07 12:55 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.496	0.00300	0.0100		mg/L	1	11/01/07 08:39 PM
Calcium	500	10.0	10.0		mg/L	100	11/01/07 05:26 PM
Iron	1.43	0.0500	0.100		mg/L	1	11/01/07 08:39 PM
Magnesium	52.3	1.00	1.00		mg/L	10	11/02/07 03:59 PM
Potassium	20.0	1.00	1.00		mg/L	10	11/02/07 03:59 PM
Sodium	1390	50.0	50.0		mg/L	500	11/03/07 05:04 AM
Anions by IC method - Water		E300		Analyst: DEW			
Bromide	6.63	0.300	1.00		mg/L	1	10/26/07 09:03 PM
Chloride	2430	60.0	200		mg/L	200	10/29/07 02:51 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	10/26/07 09:03 PM
Sulfate	751	200	600		mg/L	200	10/29/07 02:51 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	83.3	10.0	20.0		mg/L	1	10/31/07 01:37 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:37 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:37 PM
Alkalinity, Total (As CaCO3)	83.3	10.0	20.0		mg/L	1	10/31/07 01:37 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.95	0	0		pH Units	1	10/26/07 10:49 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	8100	10.0	10.0		µmhos/cm	1	10/29/07 09:50 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	5200	10.0	10.0		mg/L	1	10/30/07 08:15 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-09
Project:	RRC-Petronila Creek	Lab ID:	0710232-07
Project No:	128161-8	Collection Date:	10/25/07 01:25 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: KDT
Barium	0.0826	0.00300	0.0100		mg/L	1	11/01/07 09:40 PM
Calcium	1190	100	100		mg/L	1000	11/01/07 03:54 PM
Iron	0.0524	0.0500	0.100	J	mg/L	1	11/01/07 09:40 PM
Magnesium	290	10.0	10.0		mg/L	100	11/01/07 05:31 PM
Potassium	19.8	1.00	1.00		mg/L	10	11/02/07 04:04 PM
Sodium	5600	100	100		mg/L	1000	11/01/07 03:54 PM
Anions by IC method - Water		E300					Analyst: DEW
Bromide	23.2	1.50	5.00		mg/L	5	10/29/07 07:16 PM
Chloride	9910	60.0	200		mg/L	200	10/29/07 03:07 PM
Nitrate-N	7.14	0.500	2.50		mg/L	5	10/26/07 03:54 PM
Sulfate	2790	200	600		mg/L	200	10/29/07 03:07 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	274	10.0	20.0		mg/L	1	10/31/07 01:45 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:45 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:45 PM
Alkalinity, Total (As CaCO3)	274	10.0	20.0		mg/L	1	10/31/07 01:45 PM
pH		M4500-H+ B					Analyst: JBC
pH	7.11	0	0		pH Units	1	10/26/07 10:51 AM
Specific Conductance		M2510 B					Analyst: JBC
Specific Conductance	36000	50.0	50.0		µmhos/cm	5	10/31/07 10:00 AM
Total Dissolved Solids		M2540C					Analyst: JBC
Total Dissolved Solids (Residue, Filterable)	21600	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-D-09-D
Project:	RRC-Petronila Creek	Lab ID:	0710232-08
Project No:	128161-8	Collection Date:	10/25/07 01:25 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.0873	0.00300	0.0100		mg/L	1	11/01/07 08:44 PM
Calcium	1170	100	100		mg/L	1000	11/02/07 03:03 PM
Iron	ND	0.0500	0.100		mg/L	1	11/01/07 08:44 PM
Magnesium	296	10.0	10.0		mg/L	100	11/01/07 05:35 PM
Potassium	20.1	1.00	1.00		mg/L	10	11/02/07 04:09 PM
Sodium	5830	100	100		mg/L	1000	11/03/07 05:08 AM
Anions by IC method - Water		E300		Analyst: DEW			
Bromide	30.9	1.50	5.00		mg/L	5	10/29/07 07:32 PM
Chloride	9810	60.0	200		mg/L	200	10/29/07 03:23 PM
Nitrate-N	7.03	0.500	2.50		mg/L	5	10/26/07 04:10 PM
Sulfate	2770	200	600		mg/L	200	10/29/07 03:23 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	275	10.0	20.0		mg/L	1	10/31/07 01:53 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:53 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:53 PM
Alkalinity, Total (As CaCO3)	275	10.0	20.0		mg/L	1	10/31/07 01:53 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.27	0	0		pH Units	1	10/26/07 10:53 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	35800	50.0	50.0		µmhos/cm	5	10/31/07 10:00 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	21200	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-14
Project:	RRC-Petronila Creek	Lab ID:	0710232-09
Project No:	128161-8	Collection Date:	10/25/07 02:00 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: KDT
Barium	0.275	0.00300	0.0100		mg/L	1	11/01/07 08:49 PM
Calcium	991	10.0	10.0		mg/L	100	11/01/07 05:40 PM
Iron	0.0792	0.0500	0.100	J	mg/L	1	11/01/07 08:49 PM
Magnesium	206	10.0	10.0		mg/L	100	11/01/07 05:40 PM
Potassium	17.6	1.00	1.00		mg/L	10	11/01/07 06:46 PM
Sodium	3200	50.0	50.0		mg/L	500	11/03/07 05:13 AM
Anions by IC method - Water		E300					Analyst: DEW
Bromide	13.6	0.300	1.00		mg/L	1	10/26/07 09:47 PM
Chloride	6550	300	1000		mg/L	1000	10/29/07 03:39 PM
Nitrate-N	1.90	0.100	0.500		mg/L	1	10/26/07 09:47 PM
Sulfate	1290	100	300		mg/L	100	10/29/07 06:13 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	203	10.0	20.0		mg/L	1	10/31/07 01:59 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:59 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 01:59 PM
Alkalinity, Total (As CaCO3)	203	10.0	20.0		mg/L	1	10/31/07 01:59 PM
pH		M4500-H+ B					Analyst: JBC
pH	7.59	0	0		pH Units	1	10/26/07 10:54 AM
Specific Conductance		M2510 B					Analyst: JBC
Specific Conductance	22000	50.0	50.0		µmhos/cm	5	10/31/07 10:00 AM
Total Dissolved Solids		M2540C					Analyst: JBC
Total Dissolved Solids (Residue, Filterable)	13300	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-11
Project:	RRC-Petronila Creek	Lab ID:	0710232-10
Project No:	128161-8	Collection Date:	10/25/07 03:05 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: KDT
Barium	0.340	0.00300	0.0100		mg/L	1	11/01/07 08:53 PM
Calcium	970	10.0	10.0		mg/L	100	11/01/07 05:45 PM
Iron	0.0785	0.0500	0.100	J	mg/L	1	11/01/07 08:53 PM
Magnesium	190	10.0	10.0		mg/L	100	11/01/07 05:45 PM
Potassium	18.3	1.00	1.00		mg/L	10	11/01/07 06:51 PM
Sodium	2460	50.0	50.0		mg/L	500	11/03/07 05:17 AM
Anions by IC method - Water		E300					Analyst: DEW
Bromide	17.0	0.300	1.00		mg/L	1	10/26/07 10:02 PM
Chloride	5590	150	500		mg/L	500	10/29/07 03:54 PM
Nitrate-N	1.98	0.100	0.500		mg/L	1	10/26/07 10:02 PM
Sulfate	937	20.0	60.0		mg/L	20	10/29/07 06:29 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	204	10.0	20.0		mg/L	1	10/31/07 02:04 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:04 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:04 PM
Alkalinity, Total (As CaCO3)	204	10.0	20.0		mg/L	1	10/31/07 02:04 PM
pH		M4500-H+ B					Analyst: JBC
pH	7.18	0	0		pH Units	1	10/26/07 10:55 AM
Specific Conductance		M2510 B					Analyst: JBC
Specific Conductance	17900	50.0	50.0		µmhos/cm	5	10/31/07 10:00 AM
Total Dissolved Solids		M2540C					Analyst: JBC
Total Dissolved Solids (Residue, Filterable)	11800	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-19
Project:	RRC-Petronila Creek	Lab ID:	0710232-11
Project No:	128161-8	Collection Date:	10/25/07 03:45 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.298	0.00300	0.0100		mg/L	1	11/01/07 09:45 PM
Calcium	1140	100	100		mg/L	1000	11/01/07 04:04 PM
Iron	1.60	0.0500	0.100		mg/L	1	11/01/07 09:45 PM
Magnesium	231	10.0	10.0		mg/L	100	11/01/07 05:49 PM
Potassium	19.8	1.00	1.00		mg/L	10	11/01/07 06:56 PM
Sodium	3200	100	100		mg/L	1000	11/01/07 04:04 PM
Anions by IC method - Water		E300		Analyst: DEW			
Bromide	17.3	3.00	10.0		mg/L	10	10/31/07 02:44 PM
Chloride	6960	300	1000		mg/L	1000	10/29/07 04:10 PM
Nitrate-N	8.94	0.100	0.500		mg/L	1	10/26/07 10:16 PM
Sulfate	1240	100	300		mg/L	100	10/29/07 06:45 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	178	10.0	20.0		mg/L	1	10/31/07 03:34 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 03:34 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 03:34 PM
Alkalinity, Total (As CaCO3)	178	10.0	20.0		mg/L	1	10/31/07 03:34 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.51	0	0		pH Units	1	10/26/07 10:57 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	22900	50.0	50.0		µmhos/cm	5	10/31/07 10:00 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	14400	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-25
Project:	RRC-Petronila Creek	Lab ID:	0710232-12
Project No:	128161-8	Collection Date:	10/25/07 04:15 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020					Analyst: KDT
Barium	0.264	0.00300	0.0100		mg/L	1	11/01/07 09:50 PM
Calcium	989	10.0	10.0		mg/L	100	11/01/07 05:54 PM
Iron	0.0829	0.0500	0.100	J	mg/L	1	11/01/07 09:50 PM
Magnesium	209	10.0	10.0		mg/L	100	11/01/07 05:54 PM
Potassium	17.7	1.00	1.00		mg/L	10	11/01/07 07:00 PM
Sodium	2890	100	100		mg/L	1000	11/01/07 04:09 PM
Anions by IC method - Water		E300					Analyst: DEW
Bromide	16.4	3.00	10.0		mg/L	10	10/31/07 02:59 PM
Chloride	6360	300	1000		mg/L	1000	10/29/07 04:24 PM
Nitrate-N	8.95	0.100	0.500		mg/L	1	10/26/07 10:31 PM
Sulfate	1250	100	300		mg/L	100	10/29/07 07:00 PM
Alkalinity		M2320 B					Analyst: JBC
Alkalinity, Bicarbonate (As CaCO3)	162	10.0	20.0		mg/L	1	10/31/07 02:20 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:20 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:20 PM
Alkalinity, Total (As CaCO3)	162	10.0	20.0		mg/L	1	10/31/07 02:20 PM
pH		M4500-H+ B					Analyst: JBC
pH	7.73	0	0		pH Units	1	10/26/07 10:58 AM
Specific Conductance		M2510 B					Analyst: JBC
Specific Conductance	20800	50.0	50.0		µmhos/cm	5	10/31/07 10:00 AM
Total Dissolved Solids		M2540C					Analyst: JBC
Total Dissolved Solids (Residue, Filterable)	12800	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-CS-33
Project:	RRC-Petronila Creek	Lab ID:	0710232-13
Project No:	128161-8	Collection Date:	10/25/07 04:40 PM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.313	0.00300	0.0100		mg/L	1	11/01/07 08:58 PM
Calcium	572	10.0	10.0		mg/L	100	11/01/07 06:27 PM
Iron	0.146	0.0500	0.100		mg/L	1	11/01/07 08:58 PM
Magnesium	126	10.0	10.0		mg/L	100	11/01/07 06:27 PM
Potassium	18.4	1.00	1.00		mg/L	10	11/01/07 07:05 PM
Sodium	1850	50.0	50.0		mg/L	500	11/03/07 05:22 AM
Anions by IC method - Water		E300		Analyst: DEW			
Bromide	8.66	0.300	1.00		mg/L	1	10/26/07 11:59 PM
Chloride	3820	60.0	200		mg/L	200	10/29/07 04:39 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	10/26/07 11:59 PM
Sulfate	822	200	600		mg/L	200	10/29/07 04:39 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	152	10.0	20.0		mg/L	1	10/31/07 02:30 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:30 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:30 PM
Alkalinity, Total (As CaCO3)	152	10.0	20.0		mg/L	1	10/31/07 02:30 PM
pH		M4500-H+ B		Analyst: JBC			
pH	7.87	0	0		pH Units	1	10/26/07 10:59 AM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	12000	10.0	10.0		µmhos/cm	1	10/31/07 10:00 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	7900	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 11/07/07

CLIENT:	TRC Environmental Corp.	Client Sample ID:	P-MW-03
Project:	RRC-Petronila Creek	Lab ID:	0710232-14
Project No:	128161-8	Collection Date:	10/26/07 11:00 AM
Lab Order:	0710232	Matrix:	Aqueous

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Water		SW6020		Analyst: KDT			
Barium	0.433	0.00300	0.0100		mg/L	1	11/01/07 09:02 PM
Calcium	4400	100	100		mg/L	1000	11/02/07 03:22 PM
Iron	6.01	0.0500	0.100		mg/L	1	11/01/07 09:02 PM
Magnesium	482	10.0	10.0		mg/L	100	11/01/07 06:23 PM
Potassium	19.2	1.00	1.00		mg/L	10	11/01/07 07:33 PM
Sodium	5940	100	100		mg/L	1000	11/03/07 05:26 AM
Anions by IC method - Water		E300		Analyst: DEW			
Bromide	33.6	1.50	5.00		mg/L	5	10/31/07 01:41 PM
Chloride	15800	300	1000		mg/L	1000	10/31/07 11:51 AM
Nitrate-N	ND	0.100	0.500		mg/L	1	10/26/07 08:34 PM
Sulfate	1030	100	300		mg/L	100	10/31/07 12:38 PM
Alkalinity		M2320 B		Analyst: JBC			
Alkalinity, Bicarbonate (As CaCO3)	231	10.0	20.0		mg/L	1	10/31/07 02:37 PM
Alkalinity, Carbonate (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:37 PM
Alkalinity, Hydroxide (As CaCO3)	ND	10.0	20.0		mg/L	1	10/31/07 02:37 PM
Alkalinity, Total (As CaCO3)	231	10.0	20.0		mg/L	1	10/31/07 02:37 PM
pH		M4500-H+ B		Analyst: JBC			
pH	6.50	0	0		pH Units	1	10/29/07 12:45 PM
Specific Conductance		M2510 B		Analyst: JBC			
Specific Conductance	46600	50.0	50.0		µmhos/cm	5	10/31/07 10:00 AM
Total Dissolved Solids		M2540C		Analyst: JBC			
Total Dissolved Solids (Residue, Filterable)	30300	10.0	10.0		mg/L	1	10/31/07 10:45 AM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J.	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_071101A

Sample ID:	MB-27734	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	MBLK	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 02:37 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	ND	0.0100								
Calcium	0.390	0.100								
Iron	ND	0.100								
Magnesium	ND	0.100								
Potassium	ND	0.100								
Sodium	ND	0.100								

Sample ID:	LCS-27734	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 02:42 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.200	0.0100	0.200	0	100	80	120			
Calcium	5.20	0.100	5.00	0	104	80	120			
Iron	4.88	0.100	5.00	0	97.7	80	120			
Magnesium	4.84	0.100	5.00	0	96.8	80	120			
Potassium	4.98	0.100	5.00	0	99.6	80	120			
Sodium	4.86	0.100	5.00	0	97.1	80	120			

Sample ID:	LCS-27734	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	LCS	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 02:47 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.202	0.0100	0.200	0	101	80	120	0.944	15	
Calcium	5.52	0.100	5.00	0	110	80	120	5.99	15	
Iron	5.14	0.100	5.00	0	103	80	120	5.07	15	
Magnesium	4.94	0.100	5.00	0	98.9	80	120	2.13	15	
Potassium	5.06	0.100	5.00	0	101	80	120	1.53	15	
Sodium	4.96	0.100	5.00	0	99.2	80	120	2.08	15	

Sample ID:	0710232-04B SD	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 03:06 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	170	50.0	0	172				1.05	10	
Sodium	195	50.0	0	174				11.7	10	R

Sample ID:	0710232-04B MS	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 03:11 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	183	10.0	5.00	172	234	80	120			S
Sodium	184	10.0	5.00	174	214	80	120			S

Sample ID:	0710232-04B MSD	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 03:16 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	179	10.0	5.00	172	154	80	120	2.21	15	S
Sodium	177	10.0	5.00	174	72.0	80	120	3.92	15	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: ICP-MS2_071101A

Sample ID:	0710232-04B PDS	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 03:21 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	639	10.0	500	172	93.4	75	125			
Sodium	655	10.0	500	174	96.2	75	125			

Sample ID:	0710232-04B SD	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	SD	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 07:48 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.248	0.0500	0	0.249				0.604	10	
Iron	0	0.500	0	0.100				0	10	
Magnesium	19.8	0.500	0	19.0				3.79	10	
Potassium	13.8	0.500	0	13.8				0.217	10	

Sample ID:	0710232-04B MS	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 07:52 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.477	0.0100	0.200	0.249	114	80	120			
Iron	4.99	0.100	5.00	0.100	97.8	80	120			
Magnesium	24.4	0.100	5.00	19.0	107	80	120			
Potassium	19.2	0.100	5.00	13.8	109	80	120			

Sample ID:	0710232-04B MSD	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 07:57 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.470	0.0100	0.200	0.249	110	80	120	1.44	15	
Iron	5.04	0.100	5.00	0.100	98.9	80	120	1.14	15	
Magnesium	24.9	0.100	5.00	19.0	117	80	120	2.19	15	
Potassium	19.5	0.100	5.00	13.8	114	80	120	1.29	15	

Sample ID:	0710232-04B PDS	Batch ID:	27734	TestNo:	SW6020	Units:	mg/L			
SampType:	PDS	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 08:02 PM	Prep Date:	10/30/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.444	0.0100	0.200	0.249	97.3	75	125			
Iron	4.94	0.100	5.00	0.100	96.8	75	125			
Magnesium	22.5	0.100	5.00	19.0	70.4	75	125			S
Potassium	17.6	0.100	5.00	13.8	75.6	75	125			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_071101A

Sample ID:	ICV-071101	Batch ID:	R34423	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 11:39 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.102	0.0100	0.100	0	102	90	110			
Calcium	2.37	0.100	2.50	0	94.8	90	110			
Iron	2.59	0.100	2.50	0	104	90	110			
Magnesium	2.43	0.100	2.50	0	97.0	90	110			
Potassium	2.45	0.100	2.50	0	98.0	90	110			
Sodium	2.44	0.100	2.50	0	97.7	90	110			

Sample ID:	CCV2-071101	Batch ID:	R34423	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 02:09 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.210	0.0100	0.200	0	105	90	110			
Calcium	4.86	0.100	5.00	0	97.1	90	110			
Iron	5.06	0.100	5.00	0	101	90	110			
Magnesium	4.92	0.100	5.00	0	98.5	90	110			
Potassium	5.07	0.100	5.00	0	101	90	110			
Sodium	5.00	0.100	5.00	0	100	90	110			

Sample ID:	CCV3-071101	Batch ID:	R34423	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 03:31 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.204	0.0100	0.200	0	102	90	110			
Calcium	4.76	0.100	5.00	0	95.3	90	110			
Iron	5.00	0.100	5.00	0	100	90	110			
Magnesium	4.85	0.100	5.00	0	96.9	90	110			
Potassium	4.99	0.100	5.00	0	99.8	90	110			
Sodium	4.90	0.100	5.00	0	98.1	90	110			

Sample ID:	CCV4-071101	Batch ID:	R34423	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 04:47 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.83	0.100	5.00	0	96.5	90	110			
Magnesium	4.96	0.100	5.00	0	99.2	90	110			
Sodium	4.95	0.100	5.00	0	99.0	90	110			

Sample ID:	CCV5-071101	Batch ID:	R34423	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 06:04 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.84	0.100	5.00	0	96.7	90	110			
Magnesium	4.92	0.100	5.00	0	98.4	90	110			
Potassium	5.07	0.100	5.00	0	101	90	110			
Sodium	4.95	0.100	5.00	0	99.0	90	110			

Sample ID:	CCV6-071101	Batch ID:	R34423	TestNo:	SW6020	Units:	mg/L
SampType:	CCV	Run ID:	ICP-MS2_071101A	Analysis Date:	11/01/07 07:14 PM	Prep Date:	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_071101A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.206	0.0100	0.200	0	103	90	110			
Calcium	4.81	0.100	5.00	0	96.1	90	110			
Iron	5.06	0.100	5.00	0	101	90	110			
Magnesium	5.00	0.100	5.00	0	100	90	110			
Potassium	5.07	0.100	5.00	0	101	90	110			

Sample ID: CCV7-071101 Batch ID: R34423 TestNo: SW6020 Units: mg/L
 SampType: CCV Run ID: ICP-MS2_071101A Analysis Date: 11/01/07 08:11 PM Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.209	0.0100	0.200	0	105	90	110			
Iron	5.06	0.100	5.00	0	101	90	110			
Magnesium	4.97	0.100	5.00	0	99.3	90	110			
Potassium	5.08	0.100	5.00	0	102	90	110			

Sample ID: CCV8-071101 Batch ID: R34423 TestNo: SW6020 Units: mg/L
 SampType: CCV Run ID: ICP-MS2_071101A Analysis Date: 11/01/07 09:12 PM Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.207	0.0100	0.200	0	104	90	110			
Iron	5.09	0.100	5.00	0	102	90	110			

Sample ID: CCV9-071101 Batch ID: R34423 TestNo: SW6020 Units: mg/L
 SampType: CCV Run ID: ICP-MS2_071101A Analysis Date: 11/01/07 10:04 PM Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium	0.212	0.0100	0.200	0	106	90	110			
Iron	5.10	0.100	5.00	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_071102A

Sample ID:	ICV-071102	Batch ID:	R34449	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS2_071102A	Analysis Date:	11/02/07 12:20 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	2.41	0.100	2.50	0	96.2	90	110			
Magnesium	2.48	0.100	2.50	0	99.1	90	110			
Potassium	2.48	0.100	2.50	0	99.4	90	110			

Sample ID:	CCV1-071102	Batch ID:	R34449	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_071102A	Analysis Date:	11/02/07 02:34 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.99	0.100	5.00	0	99.8	90	110			

Sample ID:	CCV2-071102	Batch ID:	R34449	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_071102A	Analysis Date:	11/02/07 03:31 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Calcium	4.80	0.100	5.00	0	96.0	90	110			
Magnesium	4.96	0.100	5.00	0	99.2	90	110			
Potassium	4.88	0.100	5.00	0	97.6	90	110			

Sample ID:	CCV3-071102	Batch ID:	R34449	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS2_071102A	Analysis Date:	11/02/07 04:18 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Magnesium	4.90	0.100	5.00	0	98.0	90	110			
Potassium	4.80	0.100	5.00	0	96.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_071102A

Sample ID:	ICV2-071102	Batch ID:	R34454	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_071102A	Analysis Date:	11/02/07 08:07 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sodium	2.53	0.100	2.50	0	101	90	110			
Sample ID:	CCV12-071102	Batch ID:	R34454	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071102A	Analysis Date:	11/03/07 04:46 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sodium	5.05	0.100	5.00	0	101	90	110			
Sample ID:	CCV13-071102	Batch ID:	R34454	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_071102A	Analysis Date:	11/03/07 05:35 AM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sodium	4.94	0.100	5.00	0	98.9	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC_071026A

Sample ID:	Batch ID:	TestNo:	Units:
ICV-071026	R34317	E300	mg/L
SampType: ICV	Run ID: IC_071026A	Analysis Date: 10/26/07 10:25 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
Bromide	51.3	1.00	50.00
Nitrate-N	13.1	0.500	12.50
MB-071026	R34317	E300	mg/L
SampType: MBLK	Run ID: IC_071026A	Analysis Date: 10/26/07 10:43 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
Bromide	ND	1.00	
Nitrate-N	ND	0.500	
LCS-071026	R34317	E300	mg/L
SampType: LCS	Run ID: IC_071026A	Analysis Date: 10/26/07 10:59 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
Bromide	19.3	1.00	20.00
Nitrate-N	4.91	0.500	5.000
LCSD-071026	R34317	E300	mg/L
SampType: LCSD	Run ID: IC_071026A	Analysis Date: 10/26/07 11:15 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
Bromide	19.1	1.00	20.00
Nitrate-N	4.81	0.500	5.000
0710232-04D MS	R34317	E300	mg/L
SampType: MS	Run ID: IC_071026A	Analysis Date: 10/26/07 12:36 PM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
Bromide	19.4	1.00	20.00
Nitrate-N	4.51	0.500	5.000
0710232-04D MSD	R34317	E300	mg/L
SampType: MSD	Run ID: IC_071026A	Analysis Date: 10/26/07 12:50 PM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
Bromide	19.6	1.00	20.00
Nitrate-N	4.56	0.500	5.000
CCV1-071026	R34317	E300	mg/L
SampType: CCV	Run ID: IC_071026A	Analysis Date: 10/26/07 01:24 PM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
Bromide	18.7	1.00	20.00
Nitrate-N	4.54	0.500	5.000

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC_071029A

Sample ID:	ICV-071029	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC_071029A	Analysis Date:	10/29/07 11:43 AM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	50.6	1.00	50.00	0	101	90	110			
Chloride	24.9	1.00	25.00	0	99.8	90	110			
Sulfate	74.3	3.00	75.00	0	99.0	90	110			

Sample ID:	LCS-071029	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC_071029A	Analysis Date:	10/29/07 11:59 AM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.5	1.00	20.00	0	97.3	90	110			
Chloride	9.87	1.00	10.00	0	98.7	90	110			
Sulfate	29.5	3.00	30.00	0	98.2	90	110			

Sample ID:	LCSD-071029	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	LCSD	Run ID:	IC_071029A	Analysis Date:	10/29/07 12:15 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	19.4	1.00	20.00	0	97.0	90	110	0.331	20	
Chloride	9.88	1.00	10.00	0	98.8	90	110	0.0739	20	
Sulfate	29.4	3.00	30.00	0	97.8	90	110	0.354	20	

Sample ID:	MB-071029	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC_071029A	Analysis Date:	10/29/07 12:30 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID:	0710232-04DMS	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_071029A	Analysis Date:	10/29/07 01:49 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	475	20.0	200.0	283.3	95.6	90	110			
Sulfate	690	60.0	600.0	104.1	97.6	90	110			

Sample ID:	0710232-04DMSD	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC_071029A	Analysis Date:	10/29/07 02:04 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	475	20.0	200.0	283.3	95.7	90	110	0.0303	20	
Sulfate	696	60.0	600.0	104.1	98.7	90	110	0.906	20	

Sample ID:	CCV1-071029	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_071029A	Analysis Date:	10/29/07 02:36 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.9	1.00	20.00	0	94.7	90	110			
Chloride	10.0	1.00	10.00	0	100	90	110			
Sulfate	29.2	3.00	30.00	0	97.5	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC_071029A

Sample ID:	CCV2-071029	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_071029A	Analysis Date:	10/29/07 04:55 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.9	1.00	20.00	0	94.3	90	110			
Chloride	9.79	1.00	10.00	0	97.9	90	110			
Sulfate	29.2	3.00	30.00	0	97.5	90	110			

Sample ID:	0710232-13DMS	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_071029A	Analysis Date:	10/29/07 05:10 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	7850	200	2000	2295	278	90	110			S
Sulfate	7530	600	6000	492.9	117	90	110			S

Sample ID:	0710232-13DMSD	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC_071029A	Analysis Date:	10/29/07 05:26 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	7830	200	2000	2295	277	90	110	0.209	20	S
Sulfate	7480	600	6000	492.9	117	90	110	0.680	20	S

Sample ID:	CCV3-071029	Batch ID:	R34370	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_071029A	Analysis Date:	10/29/07 08:03 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.9	1.00	20.00	0	94.7	90	110			
Chloride	10.0	1.00	10.00	0	100	90	110			
Sulfate	29.2	3.00	30.00	0	97.5	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC_071031A

Sample ID:	ICV-071031	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	ICV	Run ID:	IC_071031A	Analysis Date:	10/31/07 09:42 AM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	49.4	1.00	50.00	0	98.8	90	110			
Chloride	24.2	1.00	25.00	0	96.8	90	110			
Sulfate	72.5	3.00	75.00	0	96.7	90	110			

Sample ID:	MB-071031	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	MBLK	Run ID:	IC_071031A	Analysis Date:	10/31/07 10:10 AM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID:	LCS-071031	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC_071031A	Analysis Date:	10/31/07 10:26 AM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.5	1.00	20.00	0	92.6	90	110			
Chloride	9.49	1.00	10.00	0	94.9	90	110			
Sulfate	28.4	3.00	30.00	0	94.7	90	110			

Sample ID:	LCS-071031	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	LCS	Run ID:	IC_071031A	Analysis Date:	10/31/07 10:42 AM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.7	1.00	20.00	0	93.3	90	110	0.659	20	
Chloride	9.57	1.00	10.00	0	95.7	90	110	0.830	20	
Sulfate	28.5	3.00	30.00	0	95.1	90	110	0.394	20	

Sample ID:	0710232-14DMS	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_071031A	Analysis Date:	10/31/07 12:07 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	19000	1000	10000	9485	95.2	90	110			

Sample ID:	0710232-14DMSD	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC_071031A	Analysis Date:	10/31/07 12:22 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Chloride	19000	1000	10000	9485	95.5	90	110	0.159	20	

Sample ID:	0710232-14DMS	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_071031A	Analysis Date:	10/31/07 12:54 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate	2270	300	3000	615.9	55.0	90	110			S

Sample ID:	0710232-14DMSD	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC_071031A	Analysis Date:	10/31/07 01:09 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Sulfate	2280	300	3000	615.9	55.4	90	110	0.531	20	S

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC_071031A

Sample ID:	CCV1-071031	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_071031A	Analysis Date:	10/31/07 01:25 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.5	1.00	20.00	0	92.3	90	110			
Chloride	9.71	1.00	10.00	0	97.1	90	110			
Sulfate	28.9	3.00	30.00	0	96.3	90	110			

Sample ID:	0710232-14DMS	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	MS	Run ID:	IC_071031A	Analysis Date:	10/31/07 01:57 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	105	5.00	100.0	20.13	85.2	90	110			S

Sample ID:	0710232-14DMSD	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	MSD	Run ID:	IC_071031A	Analysis Date:	10/31/07 02:12 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	105	5.00	100.0	20.13	85.2	90	110	0.0489	20	S

Sample ID:	CCV2-071031	Batch ID:	R34395	TestNo:	E300	Units:	mg/L			
SampType:	CCV	Run ID:	IC_071031A	Analysis Date:	10/31/07 03:43 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide	18.2	1.00	20.00	0	91.1	90	110			
Chloride	9.73	1.00	10.00	0	97.3	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: IC2_071026A

Sample ID:	ICV-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	ICV	Run ID:	IC2_071026A	Analysis Date:	10/26/07 09:43 AM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide	51.2	1.00	50.00	0	102	90	110				
Nitrate-N	12.9	0.500	12.50	0	103	90	110				
Sample ID:	MB-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	MBLK	Run ID:	IC2_071026A	Analysis Date:	10/26/07 10:04 AM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide	ND	1.00									
Nitrate-N	ND	0.500									
Sample ID:	LCS-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	LCS	Run ID:	IC2_071026A	Analysis Date:	10/26/07 10:18 AM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide	20.0	1.00	20.00	0	100	90	110				
Nitrate-N	5.04	0.500	5.000	0	101	90	110				
Sample ID:	LCS-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	LCS	Run ID:	IC2_071026A	Analysis Date:	10/26/07 10:33 AM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide	20.0	1.00	20.00	0	100	90	110	0.113	20		
Nitrate-N	5.05	0.500	5.000	0	101	90	110	0.184	20		
Sample ID:	CCV1-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	CCV	Run ID:	IC2_071026A	Analysis Date:	10/26/07 12:34 PM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide	20.2	1.00	20.00	0	101	90	110				
Nitrate-N	5.07	0.500	5.000	0	101	90	110				
Sample ID:	CCV3-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	CCV	Run ID:	IC2_071026A	Analysis Date:	10/26/07 06:22 PM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Nitrate-N	4.98	0.500	5.000	0	99.5	90	110				
Sample ID:	CCV4-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	CCV	Run ID:	IC2_071026A	Analysis Date:	10/26/07 08:48 PM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide	20.2	1.00	20.00	0	101	90	110				
Nitrate-N	5.11	0.500	5.000	0	102	90	110				
Sample ID:	CCV5-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	CCV	Run ID:	IC2_071026A	Analysis Date:	10/26/07 10:46 PM	Prep Date:	10/26/07				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual	
Bromide	20.3	1.00	20.00	0	102	90	110				
Nitrate-N	5.10	0.500	5.000	0	102	90	110				

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_071026A

Sample ID:	0710232-13DMS	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	MS	Run ID:	IC2_071026A	Analysis Date:	10/26/07 11:30 PM	Prep Date:	10/26/07				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Nitrate-N		4.71	0.500	5.000	0	94.1	90	110			

Sample ID:	0710232-13DMSD	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	MSD	Run ID:	IC2_071026A	Analysis Date:	10/26/07 11:45 PM	Prep Date:	10/26/07				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Nitrate-N		4.66	0.500	5.000	0	93.2	90	110	1.01	20	

Sample ID:	CCV6-071026	Batch ID:	R34333	TestNo:	E300	Units:	mg/L				
SampType:	CCV	Run ID:	IC2_071026A	Analysis Date:	10/27/07 12:14 AM	Prep Date:	10/27/07				
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Bromide		20.4	1.00	20.00	0	102	90	110			
Nitrate-N		5.12	0.500	5.000	0	102	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071026B

Sample ID:	Batch ID:	TestNo:	Units:
ICV-071026	R34316	M4500-H+ B	pH Units
SampType: ICV	Run ID: TITRATOR_071026B	Analysis Date: 10/26/07 10:41 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
pH	9.94	0	10.00
		Ref Val	%REC
		0	99.4
		LowLimit	HighLimit
		99	101
		%RPD	RPD Limit
			Qual
Sample ID: 0710232-04A DUP	Batch ID: R34316	TestNo: M4500-H+ B	Units: pH Units
SampType: DUP	Run ID: TITRATOR_071026B	Analysis Date: 10/26/07 10:47 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
pH	7.35	0	0
		Ref Val	%REC
		7.400	
		LowLimit	HighLimit
		%RPD	RPD Limit
		0.678	15
		Qual	
Sample ID: CCV1-071026	Batch ID: R34316	TestNo: M4500-H+ B	Units: pH Units
SampType: CCV	Run ID: TITRATOR_071026B	Analysis Date: 10/26/07 10:50 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
pH	7.08	0	7.000
		Ref Val	%REC
		0	101
		LowLimit	HighLimit
		97.1	102.9
		%RPD	RPD Limit
			Qual
Sample ID: 0710232-13A DUP	Batch ID: R34316	TestNo: M4500-H+ B	Units: pH Units
SampType: DUP	Run ID: TITRATOR_071026B	Analysis Date: 10/26/07 11:01 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
pH	7.86	0	0
		Ref Val	%REC
		7.870	
		LowLimit	HighLimit
		%RPD	RPD Limit
		0.127	15
		Qual	
Sample ID: CCV2-071026	Batch ID: R34316	TestNo: M4500-H+ B	Units: pH Units
SampType: CCV	Run ID: TITRATOR_071026B	Analysis Date: 10/26/07 11:02 AM	Prep Date: 10/26/07
Analyte	Result	RL	SPK value
pH	7.07	0	7.000
		Ref Val	%REC
		0	101
		LowLimit	HighLimit
		97.1	102.9
		%RPD	RPD Limit
			Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071029A

Sample ID:	ICV-071029	Batch ID:	R34343	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	ICV	Run ID:	TITRATOR_071029A	Analysis Date:	10/29/07 12:44 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	9.98	0	10.00	0	99.8	99	101			
Sample ID:	0710232-14A DUP	Batch ID:	R34343	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	DUP	Run ID:	TITRATOR_071029A	Analysis Date:	10/29/07 12:46 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	6.66	0	0	6.500				2.43	15	
Sample ID:	CCV-071029	Batch ID:	R34343	TestNo:	M4500-H+ B	Units:	pH Units			
SampType:	CCV	Run ID:	TITRATOR_071029A	Analysis Date:	10/29/07 12:47 PM	Prep Date:	10/29/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071031A

Sample ID:	ICV-071031	Batch ID:	R34405	TestNo:	M2320 B	Units:	mg/L			
SampType:	ICV	Run ID:	TITRATOR_071031A	Analysis Date:	10/31/07 12:28 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	13.8	20.0	0							
Alkalinity, Carbonate (As CaCO3)	86.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.8	20.0	100.0	0	99.8	98	102			

Sample ID:	MB-071031	Batch ID:	R34405	TestNo:	M2320 B	Units:	mg/L			
SampType:	MBLK	Run ID:	TITRATOR_071031A	Analysis Date:	10/31/07 12:30 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID:	LCS-071031	Batch ID:	R34405	TestNo:	M2320 B	Units:	mg/L			
SampType:	LCS	Run ID:	TITRATOR_071031A	Analysis Date:	10/31/07 12:34 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	52.1	20.0	50.00	0	104	74	129			

Sample ID:	0710231-01C DUP	Batch ID:	R34405	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071031A	Analysis Date:	10/31/07 12:44 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	150	20.0	0	150.0				0.101	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	150	20.0	0	150.0				0.101	20	

Sample ID:	CCV1-071031	Batch ID:	R34405	TestNo:	M2320 B	Units:	mg/L			
SampType:	CCV	Run ID:	TITRATOR_071031A	Analysis Date:	10/31/07 01:19 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	16.5	20.0	0							
Alkalinity, Carbonate (As CaCO3)	82.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.0	20.0	100.0	0	99.0	90	110			

Sample ID:	0710232-04C DUP	Batch ID:	R34405	TestNo:	M2320 B	Units:	mg/L			
SampType:	DUP	Run ID:	TITRATOR_071031A	Analysis Date:	10/31/07 01:28 PM	Prep Date:	10/31/07			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	209	20.0	0	210.0				0.449	20	
Alkalinity, Carbonate (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	209	20.0	0	210.0				0.449	20	

Sample ID:	CCV2-071031	Batch ID:	R34405	TestNo:	M2320 B	Units:	mg/L
SampType:	CCV	Run ID:	TITRATOR_071031A	Analysis Date:	10/31/07 02:25 PM	Prep Date:	10/31/07

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_071031A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	22.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	77.1	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.3	20.0	100.0	0	99.3	90	110			

Sample ID: CCV3-071031	Batch ID: R34405	TestNo: M2320 B	Units: mg/L
SampType: CCV	Run ID: TITRATOR_071031A	Analysis Date: 10/31/07 02:45 PM	Prep Date: 10/31/07

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	23.2	20.0	0							
Alkalinity, Carbonate (As CaCO3)	76.5	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.7	20.0	100.0	0	99.7	90	110			

Sample ID: CCV4-071031	Batch ID: R34405	TestNo: M2320 B	Units: mg/L
SampType: CCV	Run ID: TITRATOR_071031A	Analysis Date: 10/31/07 03:39 PM	Prep Date: 10/31/07

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	13.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	85.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	99.1	20.0	100.0	0	99.1	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: WC_071029A

Sample ID: ICV-071029	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: ICV	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	12900 10.0 12880	0 100	95 105

Sample ID: MBLK-071029	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: MBLK	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	ND 10.0		

Sample ID: LCS-071029	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: LCS	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	1360 10.0 1413	0 96.1	95 105

Sample ID: CCV1-071029	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: CCV	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	13000 10.0 12880	0 101	95 105

Sample ID: CCV2-071029	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: CCV	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	12800 10.0 12880	0 99.2	95 105

Sample ID: 0710232-04D DUP	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: DUP	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	1980 10.0 0	1975	0.404 2

Sample ID: 0710230-01F DUP	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: DUP	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	13000 10.0 0	12910	0.309 2

Sample ID: CCV3-071029	Batch ID: CONDW-10/29/07	TestNo: M2510 B	Units: μmhos/cm
SampType: CCV	Run ID: WC_071029A	Analysis Date: 10/29/07 09:50 AM	Prep Date: 10/29/07
Analyte	Result RL SPK value	Ref Val %REC	LowLimit HighLimit %RPD RPD Limit Qual
Specific Conductance	12700 10.0 12880	0 98.6	95 105

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071029B

Sample ID: MB-071029	Batch ID: TDS_W-10/29/07	TestNo: M2540C	Units: mg/L
SampType: MBLK	Run ID: WC_071029B	Analysis Date: 10/30/07 08:15 AM	Prep Date: 10/29/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	ND	10.0	

Sample ID: LCS-071029	Batch ID: TDS_W-10/29/07	TestNo: M2540C	Units: mg/L
SampType: LCS	Run ID: WC_071029B	Analysis Date: 10/30/07 08:15 AM	Prep Date: 10/29/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	745	10.0 745.6	0 99.9 70 126

Sample ID: 0710232-04C DUP	Batch ID: TDS_W-10/29/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071029B	Analysis Date: 10/30/07 08:15 AM	Prep Date: 10/29/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	1320	10.0 0	1305 0.839 5

Sample ID: 0710230-01F DUP	Batch ID: TDS_W-10/29/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071029B	Analysis Date: 10/30/07 08:15 AM	Prep Date: 10/29/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	9720	10.0 0	9960 2.44 5

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT
 RunID: WC_071031A

Sample ID:	Batch ID:	TestNo:	Units:
ICV-071031	CONDW-10/31/07	M2510 B	µmhos/cm
SampType: ICV	Run ID: WC_071031A	Analysis Date: 10/31/07 10:00 AM	Prep Date: 10/31/07
Analyte	Result	RL	SPK value
Specific Conductance	12900	10.0	12880
		Ref Val	%REC
		0	100
		LowLimit	HighLimit
		95	105
		%RPD	RPD Limit
			Qual
Sample ID: MB-071031	Batch ID: CONDW-10/31/07	TestNo: M2510 B	Units: µmhos/cm
SampType: MBLK	Run ID: WC_071031A	Analysis Date: 10/31/07 10:00 AM	Prep Date: 10/31/07
Analyte	Result	RL	SPK value
Specific Conductance	ND	10.0	
		Ref Val	%REC
		LowLimit	HighLimit
		%RPD	RPD Limit
			Qual
Sample ID: LCS-071031	Batch ID: CONDW-10/31/07	TestNo: M2510 B	Units: µmhos/cm
SampType: LCS	Run ID: WC_071031A	Analysis Date: 10/31/07 10:00 AM	Prep Date: 10/31/07
Analyte	Result	RL	SPK value
Specific Conductance	1400	10.0	1413
		Ref Val	%REC
		0	99.4
		LowLimit	HighLimit
		95	105
		%RPD	RPD Limit
			Qual
Sample ID: 0710232-14D DUP	Batch ID: CONDW-10/31/07	TestNo: M2510 B	Units: µmhos/cm
SampType: DUP	Run ID: WC_071031A	Analysis Date: 10/31/07 10:00 AM	Prep Date: 10/31/07
Analyte	Result	RL	SPK value
Specific Conductance	47200	50.0	0
		Ref Val	%REC
		46550	
		LowLimit	HighLimit
		%RPD	RPD Limit
		1.28	2
			Qual
Sample ID: CCV-071031	Batch ID: CONDW-10/31/07	TestNo: M2510 B	Units: µmhos/cm
SampType: CCV	Run ID: WC_071031A	Analysis Date: 10/31/07 10:00 AM	Prep Date: 10/31/07
Analyte	Result	RL	SPK value
Specific Conductance	13000	10.0	12880
		Ref Val	%REC
		0	101
		LowLimit	HighLimit
		95	105
		%RPD	RPD Limit
			Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

ANALYTICAL QC SUMMARY REPORT

RunID: WC_071031B

Sample ID: MB-071031	Batch ID: TDS_W-10/31/07	TestNo: M2540C	Units: mg/L
SampType: MBLK	Run ID: WC_071031B	Analysis Date: 10/31/07 10:45 AM	Prep Date: 10/31/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	ND	10.0	

Sample ID: LCS-071031	Batch ID: TDS_W-10/31/07	TestNo: M2540C	Units: mg/L
SampType: LCS	Run ID: WC_071031B	Analysis Date: 10/31/07 10:45 AM	Prep Date: 10/31/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	735	10.0 745.6	0 98.6 70 126

Sample ID: 0710231-04B DUP	Batch ID: TDS_W-10/31/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071031B	Analysis Date: 10/31/07 10:45 AM	Prep Date: 10/31/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	524	10.0 0	506.0 3.50 5

Sample ID: 0710232-14C DUP	Batch ID: TDS_W-10/31/07	TestNo: M2540C	Units: mg/L
SampType: DUP	Run ID: WC_071031B	Analysis Date: 10/31/07 10:45 AM	Prep Date: 10/31/07
Analyte	Result RL	SPK value	Ref Val %REC LowLimit HighLimit %RPD RPD Limit Qual
Total Dissolved Solids (Residue, Fi	29800	10.0 0	30260 1.40 5

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	N	Parameter not NELAC certified
	ND	Not Detected at the Method Detection Limit		

CLIENT: TRC Environmental Corp.
 Work Order: 0710232
 Project: RRC-Petronila Creek

MQL SUMMARY REPORT

TestNo: E300 Analyte	MDL mg/L	MQL mg/L
Bromide	0.300	1.00
Chloride	0.300	1.00
Nitrate-N	0.100	0.500
Sulfate	1.00	3.00
TestNo: M2320 B Analyte	MDL mg/L	MQL mg/L
Alkalinity, Bicarbonate (As CaCO ₃)	10.0	20.0
Alkalinity, Carbonate (As CaCO ₃)	10.0	20.0
Alkalinity, Hydroxide (As CaCO ₃)	10.0	20.0
Alkalinity, Total (As CaCO ₃)	10.0	20.0
TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Barium	0.00300	0.0100
Calcium	0.100	0.100
Iron	0.0500	0.100
Magnesium	0.100	0.100
Potassium	0.100	0.100
Sodium	0.100	0.100
TestNo: M2510 B Analyte	MDL µmhos/cm	MQL µmhos/cm
Specific Conductance	10.0	10.0
TestNo: M2540C Analyte	MDL mg/L	MQL mg/L
Total Dissolved Solids (Residue, Fi	10.0	10.0

Qualifiers:

MQL - Method Quantitation Limit as defined by TRRP
 MDL - Method Detection Limit as defined by TRRP

APPENDIX D

SURVEY DATA

PNT#	WELL	NORTH	EAST	ELEV	SHOT DESCRIPTION
102	P-MW-16	17136932.56	1230272.209	54.1767	natural ground
103	P-MW-16	17136931.34	1230272.335	54.4682	concrete pad
104	P-MW-16	17136930.84	1230272.154	57.2056	top of lid
105	P-MW-16	17136930.5	1230272.238	56.7996	top of casing
107	P-MW-13	17137229.99	1229074.408	58.0415	natural ground
108	P-MW-13	17137229.63	1229075.914	58.701	concrete pad
109	P-MW-13	17137229.06	1229076.23	60.4594	top of lid
110	P-MW-13	17137229.26	1229076.138	60.2512	top of casing
111	P-MW-14	17137228.93	1229077.856	58.2966	natural ground
112	P-MW-14	17137228.37	1229078.717	58.7503	conc pad
113	P-MW-14	17137228.11	1229079.063	60.9946	top of lid
114	P-MW-14	17137228.29	1229079.09	60.7212	top of casing
115	P-MW-15	17137227.44	1229080.603	58.0986	natural ground
116	P-MW-15	17137227.04	1229081.422	58.6344	concrete pad
117	P-MW-15	17137227.04	1229081.819	61.5818	top of lid
118	P-MW-15	17137227.19	1229081.959	61.203	top of casing
119	CONTROL	17137901.06	1229080.447	64.431	top of concrete bridge
120	P-MW-22	17137612.83	1234523.512	55.5878	natural ground
121	P-MW-22	17137612.78	1234522.613	56.0493	concrete pad
122	P-MW-22	17137612.55	1234521.954	58.6854	top of lid
123	P-MW-22	17137612.55	1234522.095	58.3132	top of casing
125	P-MW-1	17139501.3	1236995.869	54.547	natural ground
126	P-MW-1	17139501.64	1236994.584	54.9742	concrete pad
127	P-MW-1	17139501.81	1236994.344	57.9586	top of lid
128	P-MW-1	17139501.58	1236994.191	57.6071	top of casing
129	P-MW-2	17139505.43	1236991.945	54.5374	natural ground
130	P-MW-2	17139505.79	1236990.887	54.8972	concrete pad
131	P-MW-2	17139505.78	1236990.741	57.4939	top of lid
132	P-MW-2	17139505.54	1236990.377	57.246	top of casing
133	P-D3-MW-27	17139505.39	1237001.328	54.5671	natural ground
134	P-D3-MW-27	17139506.82	1237001.594	54.8949	concrete pad
135	P-D3-MW-27	17139508.09	1237000.664	57.8805	top of lid
136	P-D3-MW-27	17139508.36	1237000.884	57.1978	top of casing
138	P-MW-3	17136635.04	1239704.186	51.6099	natural ground
139	P-MW-3	17136634.53	1239703.255	51.9889	concrete pad
140	P-MW-3	17136634.2	1239702.857	55.0282	top of lid
141	P-MW-3	17136634.1	1239702.883	54.6468	top of casing
142	CONTROL	17131436.41	1242466.334	54.5532	top of concrete bridge
143	P-MW-11	17131069.38	1242514.947	49.5468	natural ground
144	P-MW-11	17131070.19	1242514.536	50.0025	concrete pad
145	P-MW-11	17131070.61	1242514.08	52.2603	top of lid
146	P-MW-11	17131070.42	1242513.909	51.9009	top of casing
148	P-MW-17	17128862.83	1242475.87	49.6186	natural ground
149	P-MW-17	17128863.28	1242475.034	50.1642	concrete pad
150	P-MW-17	17128863.24	1242474.245	51.971	top of lid
151	P-MW-17	17128862.96	1242474.275	51.5409	top of casing
152	P-MW-18	17128863.92	1242470.379	49.5787	natural ground
153	P-MW-18	17128864.33	1242469.448	50.2103	concrete pad
154	P-MW-18	17128864.39	1242468.925	52.4269	top of lid
155	P-MW-18	17128864.36	1242468.807	52.0276	top of casing
156	P-MW-19	17128865.7	1242465.25	49.6193	natural ground

157 P-MW-19	17128865.93	1242464.201	50.1364 concrete pad
158 P-MW-19	17128866.17	1242463.934	52.7689 top of lid
159 P-MW-19	17128865.82	1242463.736	52.3426 top of casing
162 P-MW-12	17122495.59	1242478.431	47.4092 natural ground
163 P-MW-12	17122495.25	1242479.456	47.8697 concrete pad
164 P-MW-12	17122495.26	1242479.976	50.1099 top of lid
165 P-MW-12	17122495.12	1242479.943	49.7798 top of casing
169 CONTROL	17122938.09	1247435.12	39.4891 TOP OF CONCRETE I
170 P-MW-20	17127145.12	1234598.526	49.9911 NATURAL GROUND
171 P-MW-20	17127144.64	1234599.401	50.3968 CONCRETE PAD
172 P-MW-20	17127144.69	1234599.849	52.5836 TOP OF LID
173 P-MW-20	17127144.69	1234599.917	52.2842 TOP OF CASING
174 P-MW-21	17127143.93	1234602.221	49.9492 NATURAL GROUND
175 P-MW-21	17127143.68	1234603.078	50.3495 CONCRETE PAD
176 P-MW-21	17127143.61	1234603.49	52.8409 TOP OF LID
177 P-MW-21	17127143.53	1234603.804	52.429 TOP OF CASING
179 P-MW-10	17130966.95	1237384.435	53.5409 NATURAL GROUND
180 P-MW-10	17130967.18	1237383.471	53.9594 CONCRETE PAD
181 P-MW-10	17130967.51	1237383.014	56.5381 TOP OF LID
182 P-MW-10	17130967.39	1237382.935	56.136 TOP OF CASING
184 P-D2-MW-12	17132524.77	1234503.586	52.9392 NATURAL GROUND
185 P-D2-MW-12	17132525.96	1234503.547	53.1591 CONCRETE PAD
186 P-D2-MW-12	17132526.97	1234503.878	56.3718 TOP OF LID
187 P-D2-MW-12	17132527.2	1234503.797	56.0414 TOP OF CASING
189 P-MW-4	17135883.75	1235768.897	52.5065 NATURAL GROUND
190 P-MW-4	17135882.84	1235768.721	52.4482 CONCRETE PAD
191 P-MW-4	17135882.25	1235768.578	54.8119 TOP OF LID
192 P-MW-4	17135882.25	1235768.611	54.4582 TOP OF CASING
193 P-MW-5	17135877.64	1235767.973	52.0515 NATURAL GROUND
194 P-MW-5	17135876.9	1235767.836	52.4121 CONCRETE PAD
195 P-MW-5	17135876.61	1235767.402	55.0524 TOP OF LID
196 P-MW-5	17135876.69	1235767.552	54.7214 TOP OF CASING
197 P-MW-6	17135873.38	1235767.059	51.8582 NATURAL GROUND
198 P-MW-6	17135872.61	1235767.21	52.1814 CONCRETE PAD
199 P-MW-6	17135872.22	1235766.701	55.4077 TOP OF LID
200 P-MW-6	17135872.28	1235766.904	55.1608 TOP OF CASING
202 P-MW-7	17134397.29	1237072.829	50.0078 NATURAL GROUND
203 P-MW-7	17134399	1237072.948	50.486 CONCRETE PAD
204 P-MW-7	17134399.51	1237073.39	53.1292 TOP OF LID
205 P-MW-7	17134399.44	1237073.458	52.8386 TOP OF CASING
206 P-MW-8	17134403.74	1237073.9	50.0757 NATURAL GROUND
207 P-MW-8	17134404.37	1237073.91	50.3506 CONCRETE PAD
208 P-MW-8	17134405.04	1237074.107	52.8698 TOP OF LID
209 P-MW-8	17134405.2	1237074.351	52.5375 TOP OF CASING
210 P-MW-9	17134408.76	1237074.925	49.8412 NATURAL GROUND
211 P-MW-9	17134409.48	1237075.184	50.2743 CONCRETE PAD
212 P-MW-9	17134409.69	1237075.281	52.7026 TOP OF LID
213 P-MW-9	17134409.8	1237075.479	52.4331 TOP OF CASING
900 CONTROL	17133837.81	1234943.475	55.452 CP 5/8 SIR W/CAP
902 CONTROL	17137219.42	1229813.64	55.3686 cp 5/8 sir w/cap
903 CONTROL	17140481.45	1234636.249	62.6703 cp 5/8 sir w/cap
904 CONTROL	17136649.05	1239719.928	51.6366 cp 1/2 sir w/cap

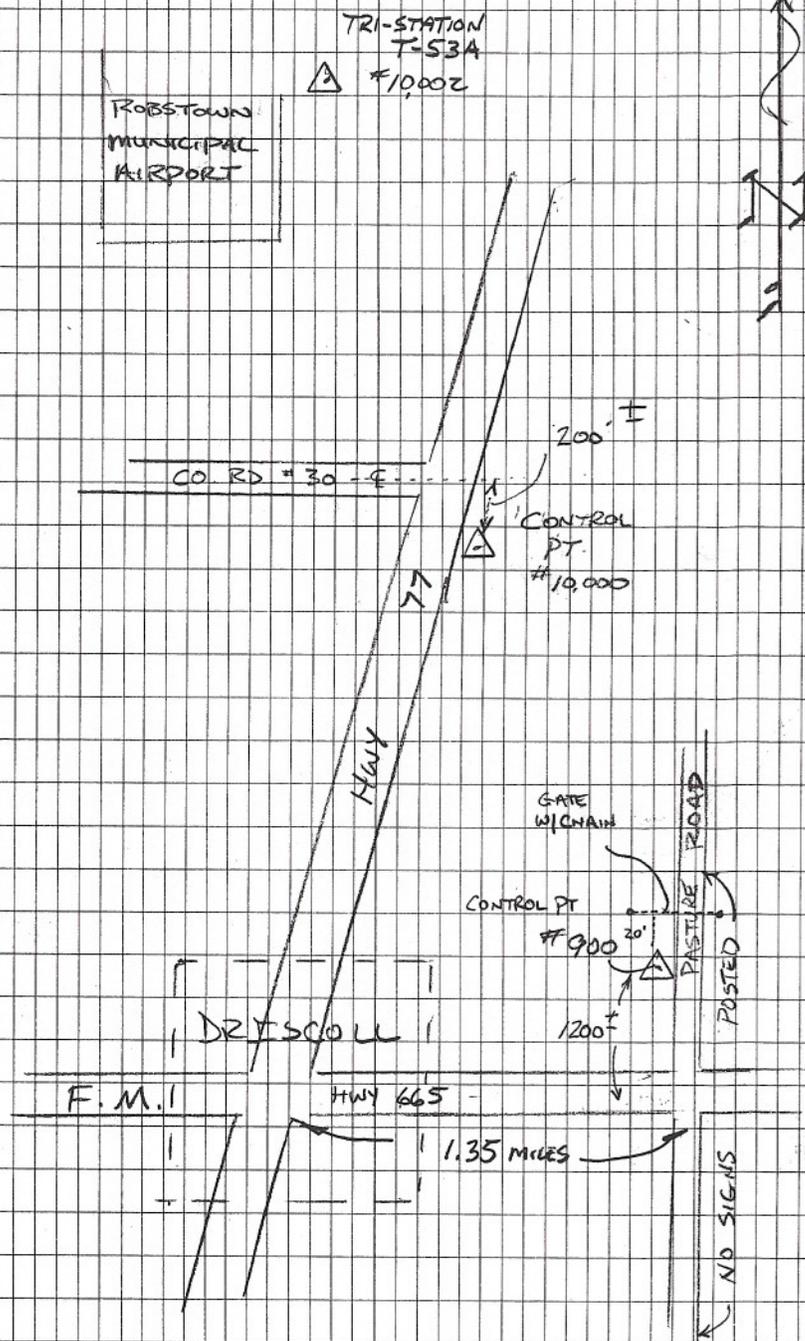
905	CONTROL	17131060.99	1242526.963	49.7484	c p 1/2 sir w/cap
906	CONTROL	17128864.66	1242478.32	49.6977	cp 1/2 sir w/cap
907	CONTROL	17122496.47	1242487.553	47.4422	cp 1/2 sir w/cap
908	CONTROL	17127144.93	1234590.783	50.1984	CP 1/2 SIR W/CAP
909	CONTROL	17130964.64	1237389.408	53.4923	CP 1/2 SIR W/CAP
910	CONTROL	17132532.52	1234515.303	53.0036	CP 1/2 SIR W/CAP
911	CONTROL	17135890.78	1235761.98	52.0769	CP 1/2 SIR W/CAP
912	CONTROL	17134382.45	1237066.839	50.3215	CP 5/8 SIR W/CAP
10000	CONTROL	17153065.23	1239144.084	66.6958	here 5/8 sir
10001	CONTROL	17171692.37	1247269.14	74.5	STA T53-A

NUECES CO. 0704059 -102407
 T.R.C.
 MONITOR WELL LOCATIONS
 NAD83 TEXAS SOUTH 4205
 TRIMBLE S800 / BASE #621 - ROVER #250

DESC. MET W/ CLIENT. ESTABLISHED
 HORIZ. CONTROL TO JOB SITE.
 LOCATED BM.

PT. #	DESC.	
10,000	HERE	
10,001	TRI STA T-53A (ENTERED)	
10,002	CALIB	
900	C.P. 5/8" SIR W/CAP	O.C.P.
901	2 ND CK #900	TOPO

SUNNY, 70° 0704059 -102407 FB. 123 P. 9
 J. TOLFA / B. GARRETT

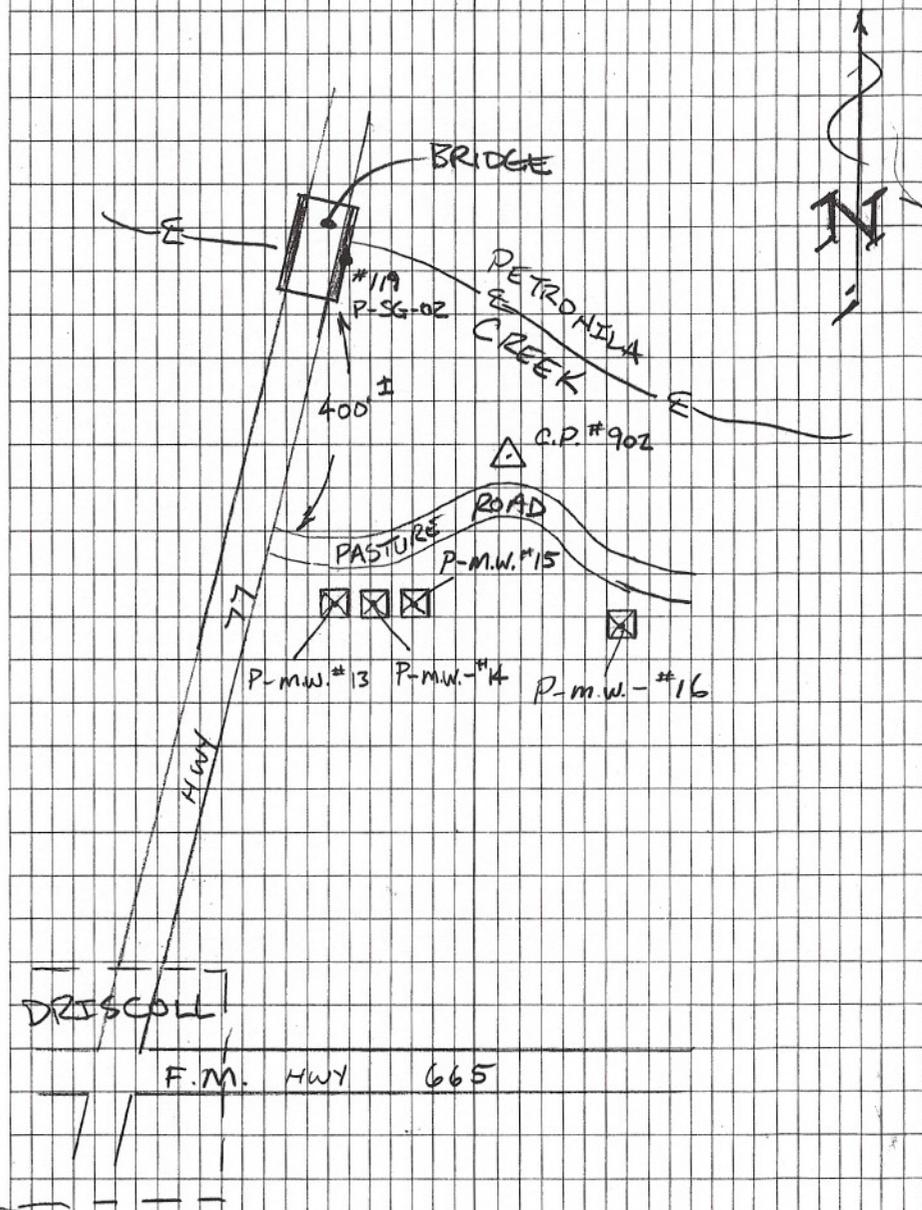


NUECES CO. 0704059-102507
 T.R.C.
 MONITOR WELL LOCATIONS
 NAD83 TEXAS SOUTH AZ05
 TRIMBLE S800 / BASE #621 - ROVER #250

BASE @ C.P. #900 5/8" I.R. W/CAP

PT. #	DESC.	
100	CHK. BM NGS B-1380 CALLELEV=64.59' GPS ELEV.=64.62'	
101	2 ND CK #100 (REINITIALIZED)	
102	NATURAL GROUND	} P-MW-#16
103	CONCRETE PAD	
104	TOP OF LID	
105	TOP OF CASING @ SLICE	
902	CONTROL POINT 5/8" SIR W/CAP	
106	2 ND CK #902 (REIN.)	
107	NATURAL GROUND	} P-MW-#13
108	CONCRETE PAD	
109	TOP OF LID	
110	TOP OF CASING @ SLICE	
111	NATURAL GROUND	} P-MW-#14
112	CONCRETE PAD	
113	TOP OF LID	
114	TOP OF CASING @ SLICE	
115	NATURAL GROUND	} P-MW-#15
116	CONCRETE PAD	
117	TOP OF LID	
118	TOP OF CASING @ SLICE	
119	TOP OF CONC BRIDGE WALL (PAINT MARK SET BY BARRETT CLARK) EAST SIDE BRIDGE, E BRIDGE HWY 77 P-SG-02	

Sunday, 75° 0704059-102507 FB.123 P.10
 J. TOLFA / B. GARRETT



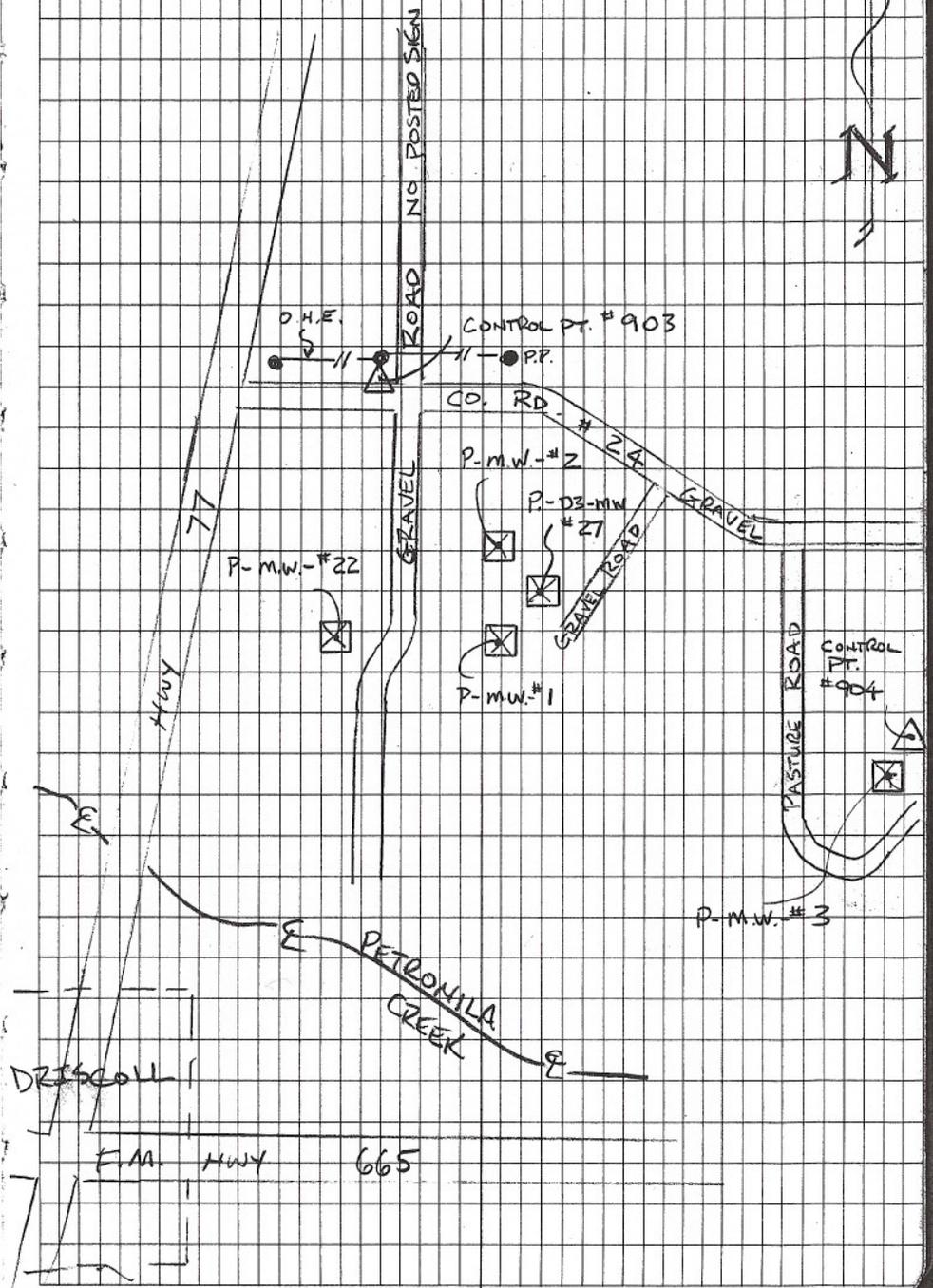
JUECES CO. 0704059-102507
 T.R.C.
 MONITOR WELL LOCATIONS
 NAD 83 TEXAS SOUTH 4205
 TRIMBLE 5800 / BASE *621 - ROVER *250

BASE @ C.P. #900 5/8" I.R. W/CAP

PT. #	DESC.	
120	NATURAL GROUND	} P-M.W. #22
121	CONCRETE PAD	
122	TOP OF LID	
123	TOP OF CASING @ SLICE	} P-M.W. #1
903	CONTROL POINT 5/8" S.I.R. W/CAP	
124	2 ND CK #903 (REIN.)	
125	NATURAL GROUND	} P-M.W. #2
126	CONCRETE PAD	
127	TOP OF LID	
128	TOP OF CASING @ SLICE	} P-D3-M.W. #27
129	NATURAL GROUND	
130	CONCRETE PAD	
131	TOP OF LID	} P-M.W. #3
132	TOP OF CASING @ SLICE	
133	NATURAL GROUND	
134	CONCRETE PAD	} P-M.W. #3
135	TOP OF LID	
136	TOP OF CASING	
904	CONTROL POINT 1/2" S.I.R. W/CAP	
137	2 ND CK #904	
138	NATURAL GROUND	
139	CONCRETE PAD	
140	TOP OF LID	
141	TOP OF CASING @ SLICE	

MARKER DOT ON NORTH SIDE TOP CASING

Sunny, 75° 0704059-102507 FB 123 P.11
 J. TOUFA / B. GARRETT

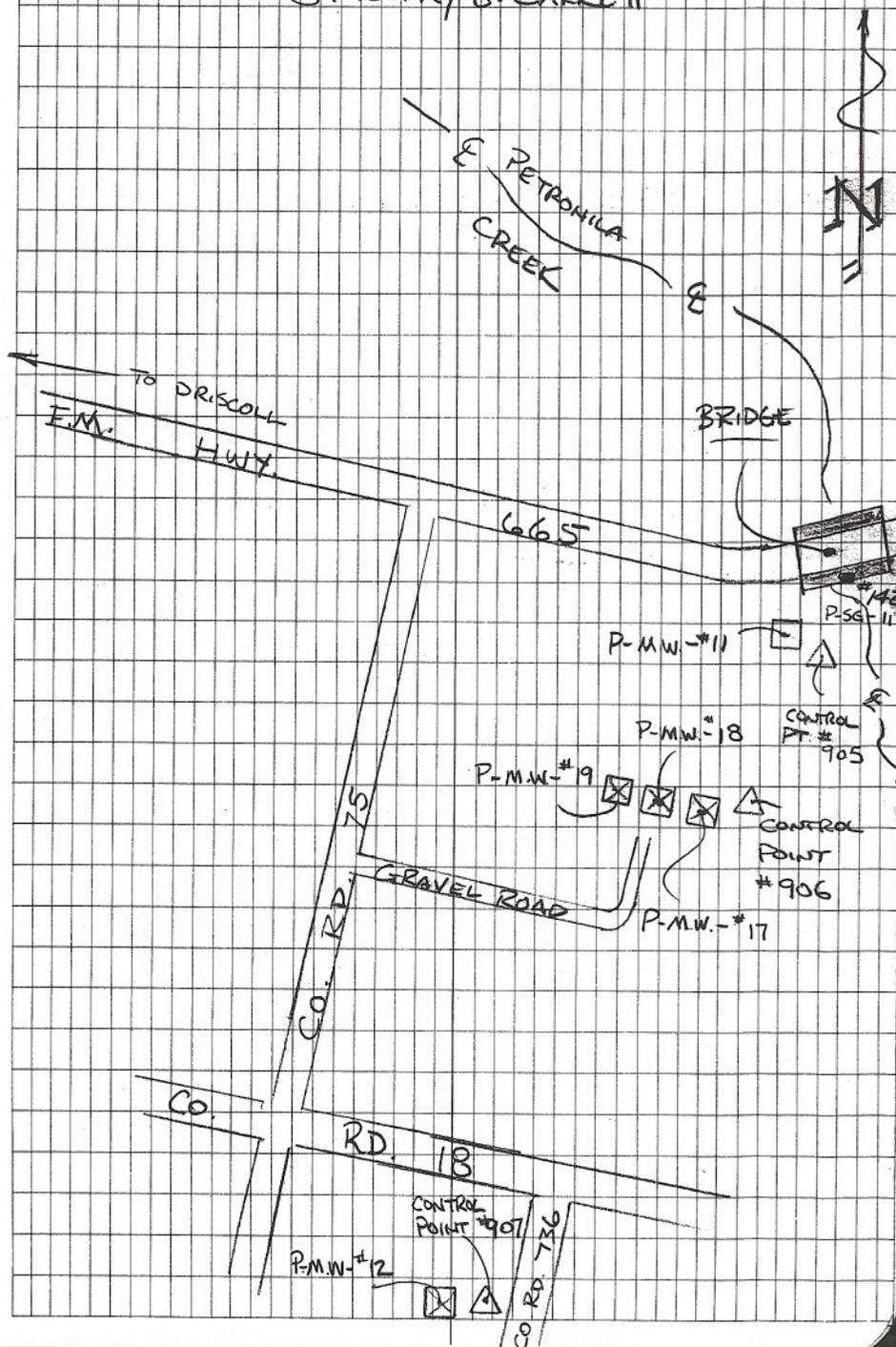


NUECES CO 0704059-102507
 T.R.C.
 MONITOR WELL LOCATIONS
 NAD 83 TEXAS SOUTH 4205
 TRIMBLE S800/BASE #621-ROVER #250

BASE @ C.P. #900 5/8" I.R. W/CAP

PT. #	DESC	
142	TOP OF CONCRETE BRIDGE WALL (PAINT MARK SET BY BARRETT CLARK) SOUTH SIDE BRIDGE & BRIDGE HWY 665 P-SG-11	
143	NATURAL GROUND	} P-m.w. #11
144	CONCRETE PAD	
145	TOP OF LID	
146	TOP OF CASING @ SLICE	
905	CONTROL POINT 1/2" S.I.R. W/CAP	
147	2 ND CK # 905 (REIN.)	
148	NATURAL GROUND	} P-m.w. #17
149	CONCRETE PAD	
150	TOP OF LID	
151	TOP OF CASING @ SLICE	
152	NATURAL GROUND	} P-m.w. #18
153	CONCRETE PAD	
154	TOP OF LID	
155	TOP OF CASING @ SLICE	
156	NATURAL GROUND	} P-m.w. #19
157	CONCRETE PAD	
158	TOP OF LID	
159	TOP OF CASING @ SLICE	
906	CONTROL POINT 1/2" S.I.R. W/CAP	
160	2 ND CK #906 (REIN.)	
907	CONTROL POINT 1/2" S.I.R. W/CAP	
161	2 ND CK #907 (REIN.)	

SUNNY, 75° 0704059-102507 FB. 123 P. 12
 J. TOLFA/B. GARRETT



NUECES CO

0704059-102507

T.R.C.

MONITOR WELL LOCATIONS

NAD 83 TEXAS SOUTH 4205

TRIMBLE 5800/BASE #621-ROVER #250

BASE @ C.P. #900 $\frac{5}{8}$ " I.R. W/CAP

PT. # DESC.

162 NATURAL GROUND

163 CONCRETE PAD

164 TOP OF LID

165 TOP OF CASING @ SLICE

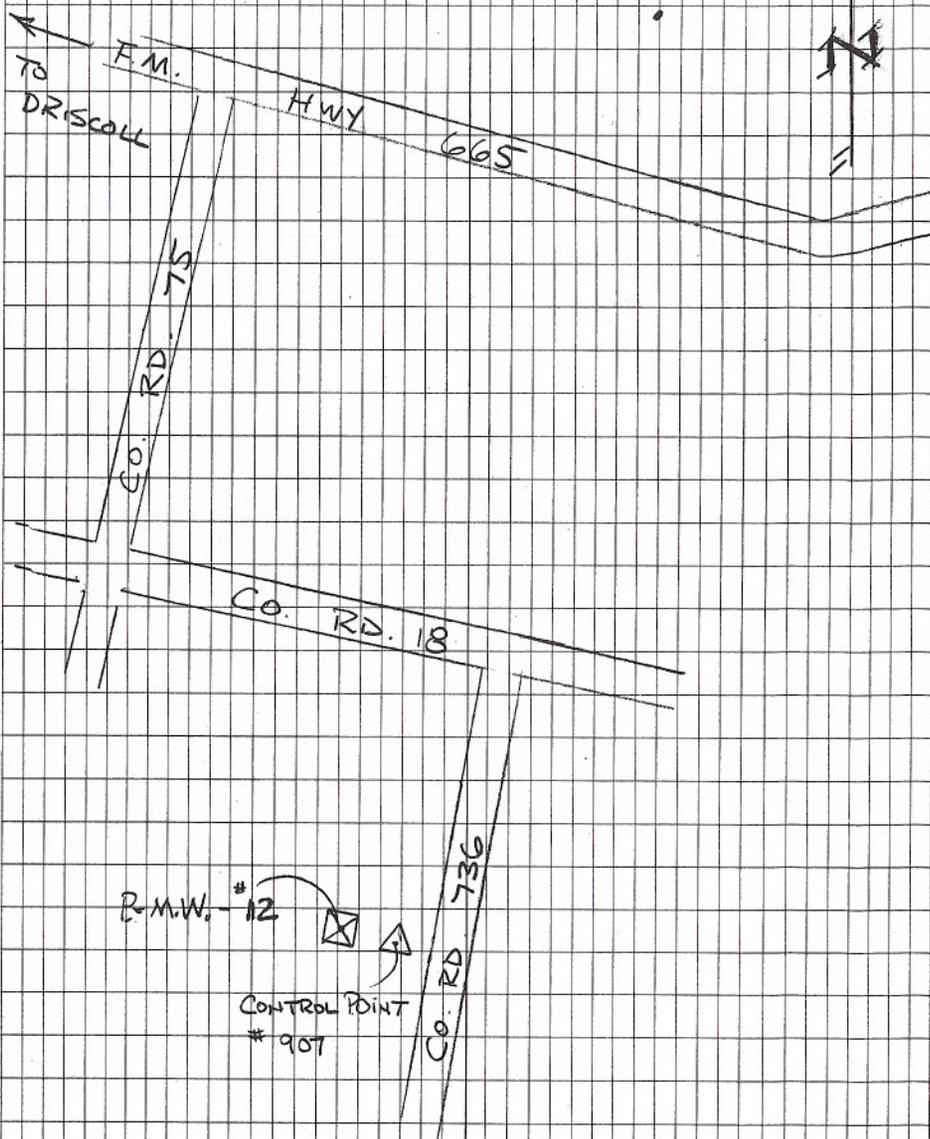
} P-M.W. - # 12

Sunny, 75°

0704059-102507

FB. 123 P. 13

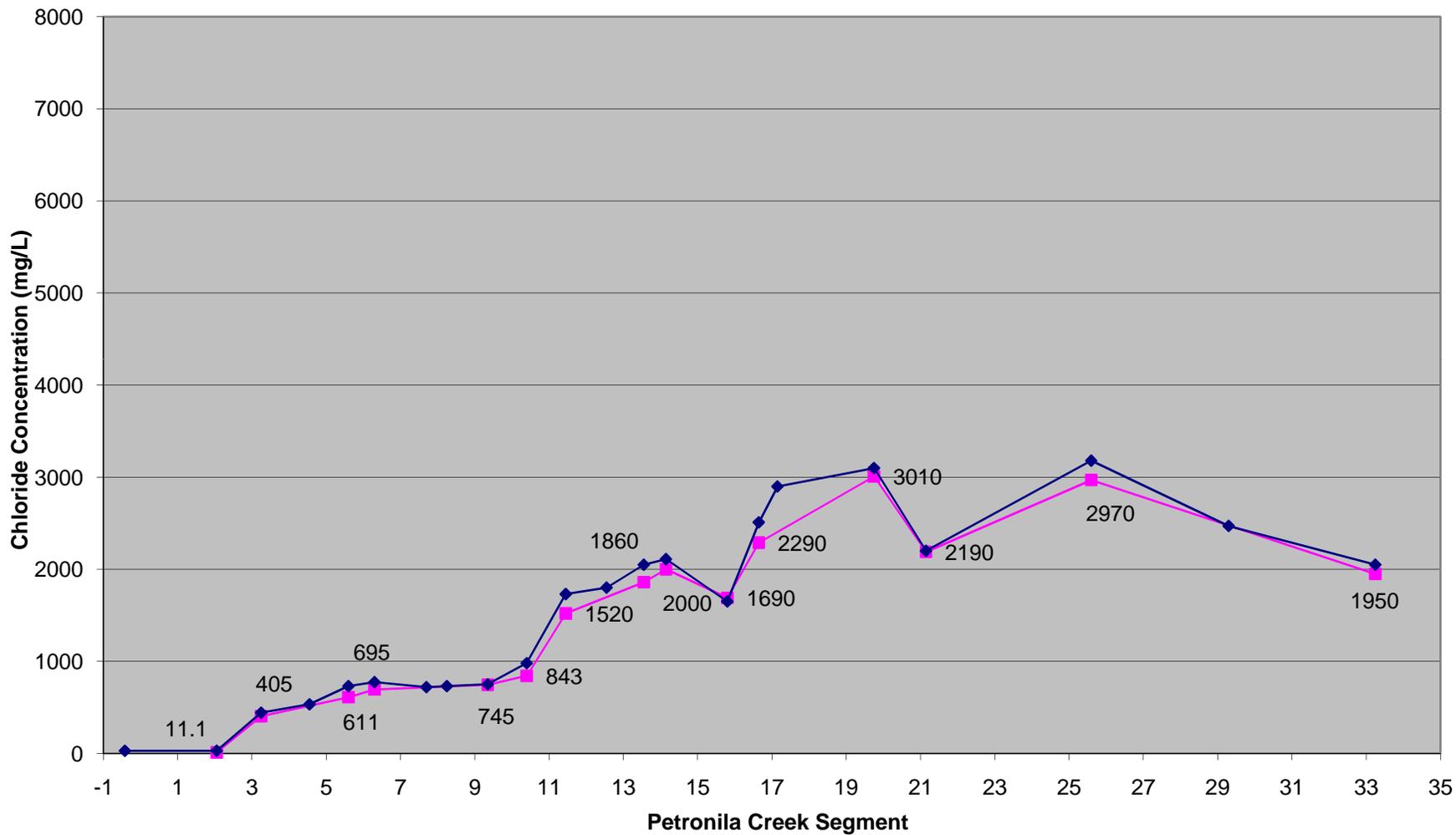
J. TOUFA/B. GARRETT



APPENDIX E

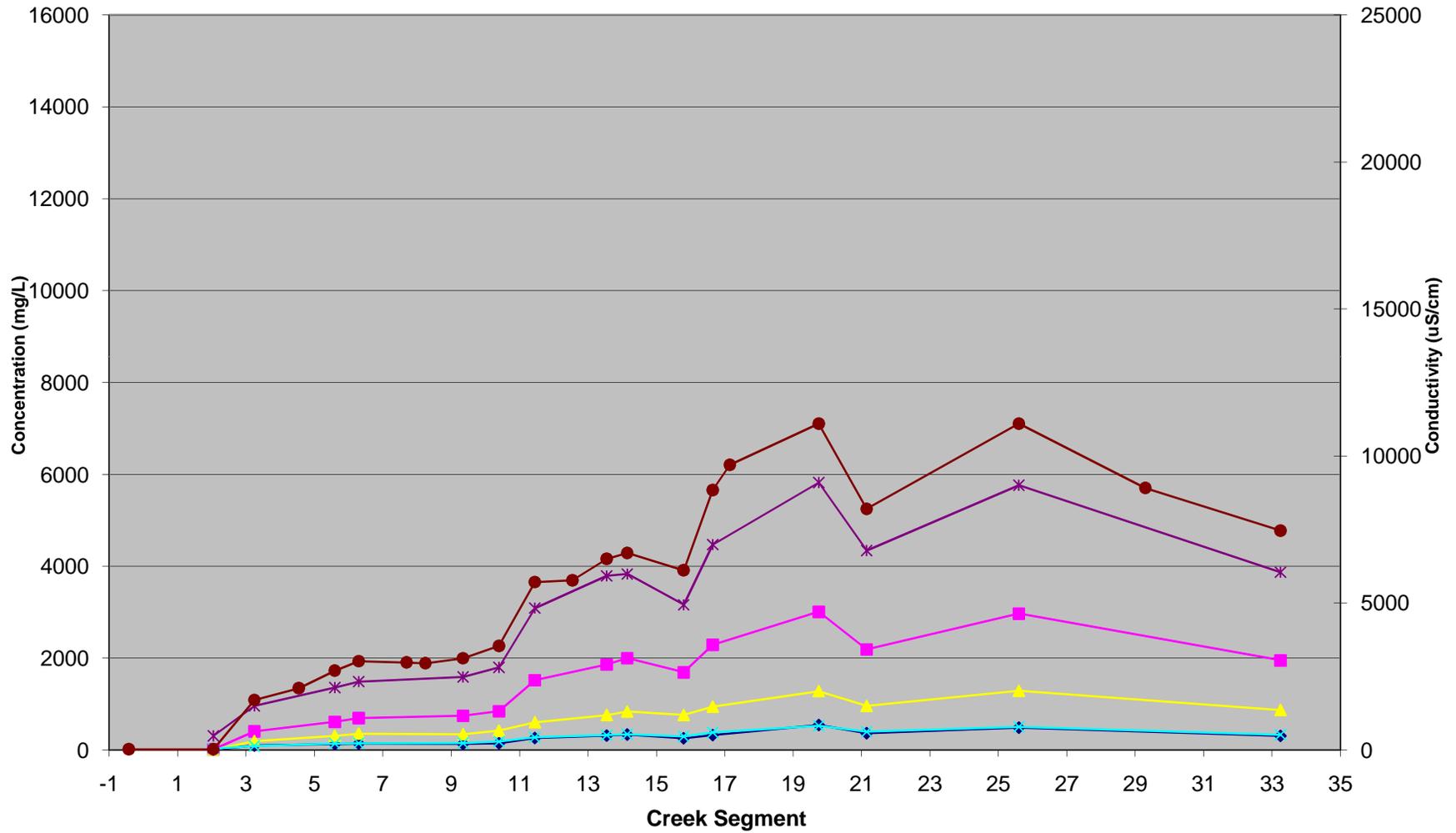
SEASONAL SURFACE WATER GRAPHS

Chloride Concentrations Along Petronila Creek February 2007

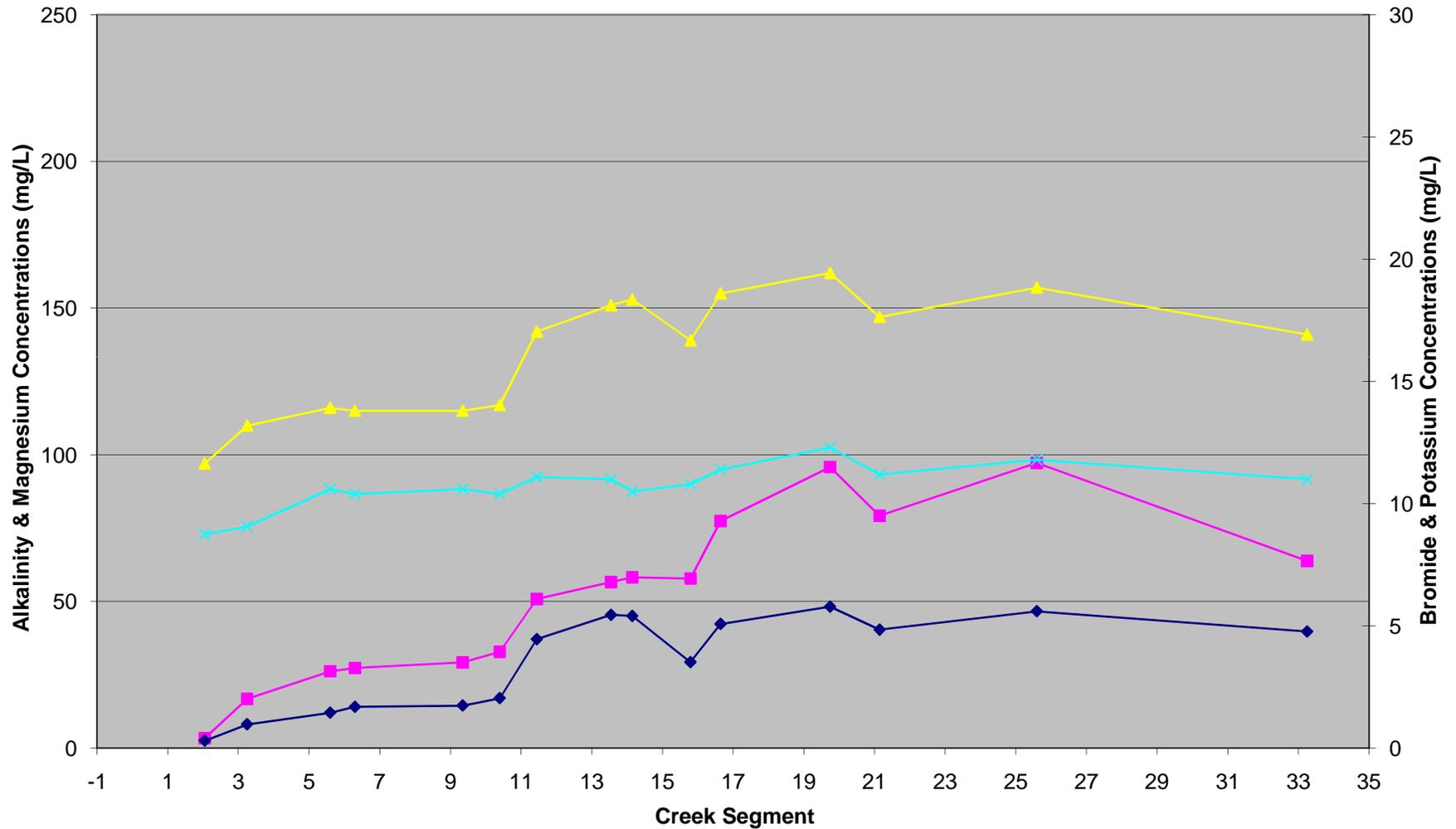


—■— Lab Results —◆— Field Results

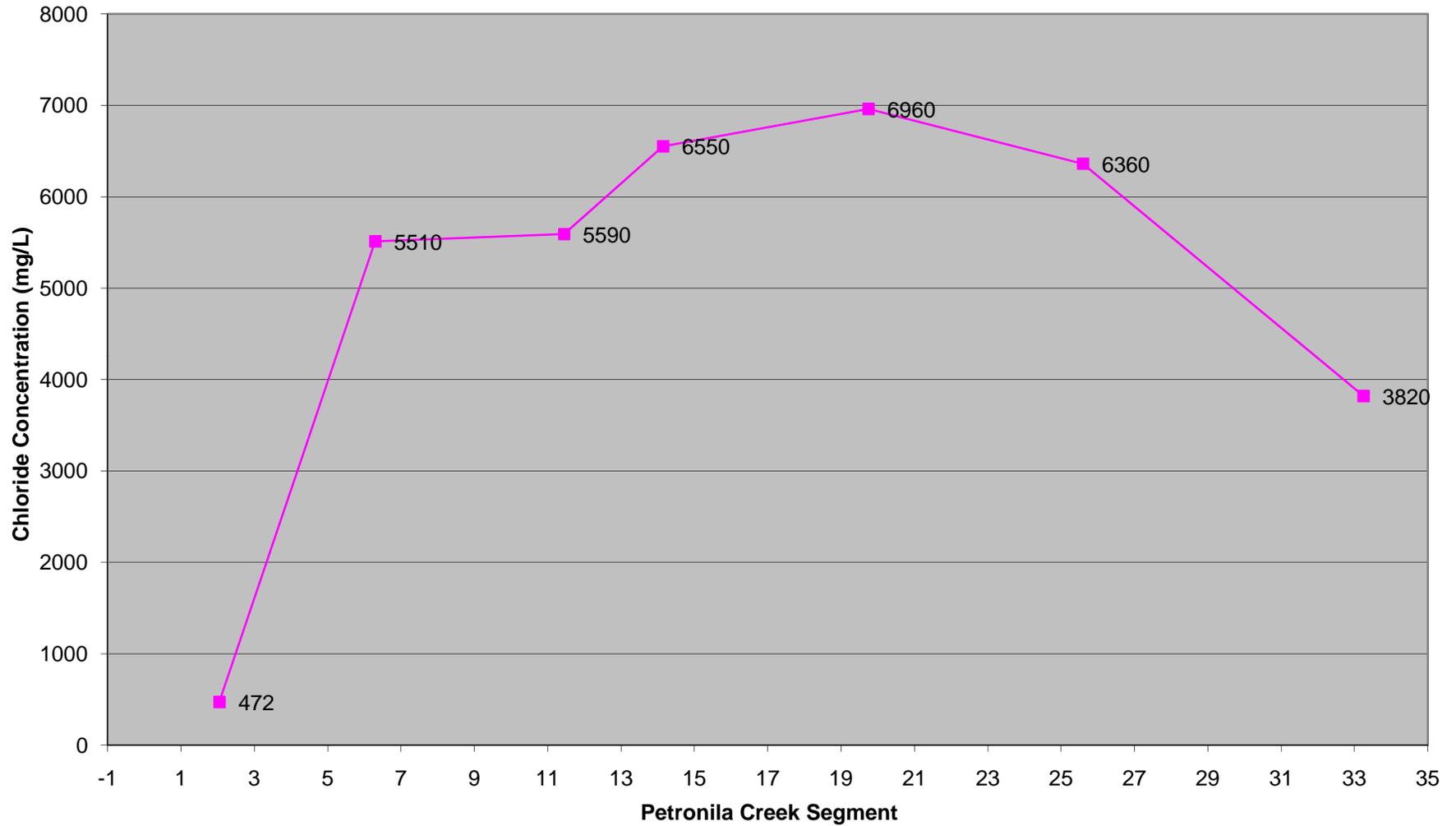
Analyte Concentrations Along Petronila Creek February 2007



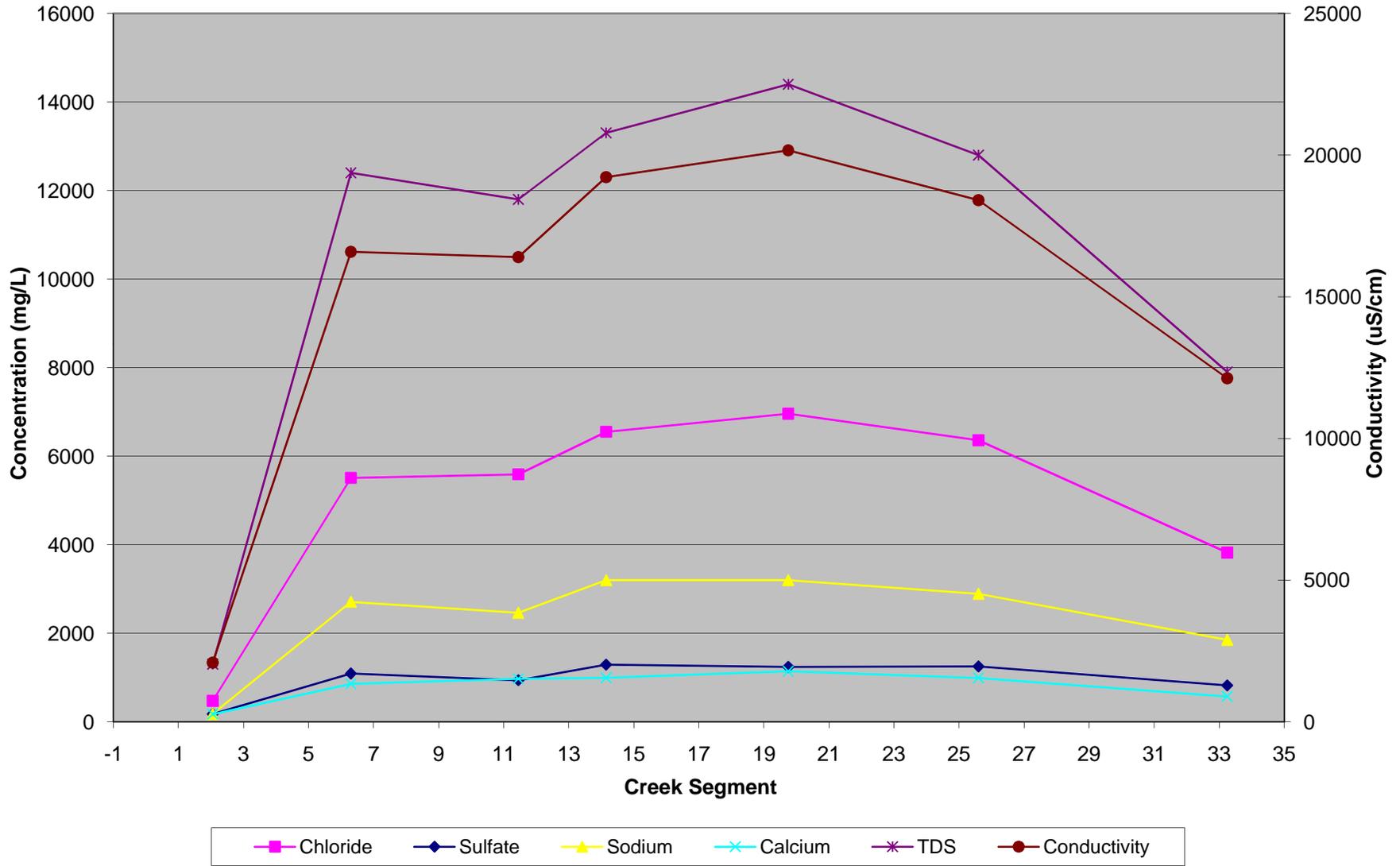
Analyte Concentrations Along Petronila Creek February 2007



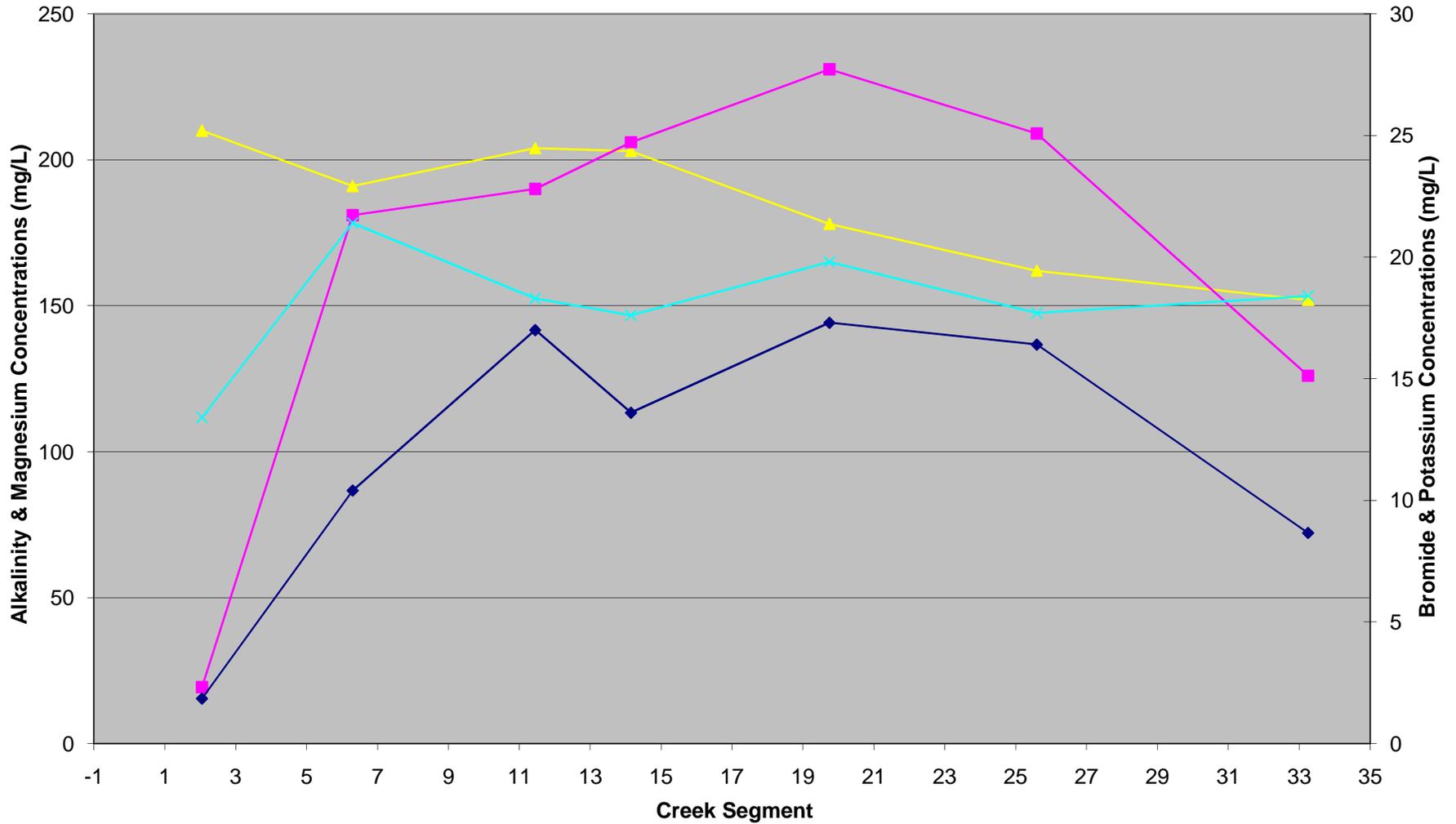
Chloride Concentrations Along Petronila Creek October 2007



Analyte Concentrations Along Petronila Creek October 2007



Analyte Concentrations Along Petronila Creek October 2007



APPENDIX F

QUALITY ASSURANCE/QUALITY CONTROL REVIEW

Background

Twenty-six soil samples, two field duplicate samples, and two equipment rinsate blanks were collected on June 28 and 30, 2007 as well as July 1, 2, 12, 13, and 14, 2007 at the Petronila Creek site. These samples were submitted to DHL Analytical in Round Rock, Texas for analyses by the following methods:

- Alkalinity by USEPA Method 310.1
- Barium, calcium, iron, magnesium, potassium, and sodium by SW846 Method 6020
- pH by SW846 Method 9045C
- Bromide, chloride, nitrate, and sulfate (anions) by USEPA Method 300.0 (aqueous) and SW846 Method 9056 (soil)
- Percent moisture by ASTM Method D2216
- Electrical Conductance in Soil by American Society of Agronomy (ASA) Method 10-2.3

TRC Quality Assurance (QA) staff reviewed resultant data on August 1 and 2, 2007. Five separate data packages were reviewed to generate this document. Sample identifiers cross-referenced to laboratory identifications are presented in Table 1. Data were reviewed for compliance with the criteria presented in *Investigations of Increased Salinity Along Petronila Creek (Segment 2204) Quality Assurance Project Plan* (Railroad Commission of Texas, February 1, 2007) (the QAPP). Items reviewed during the data validation process included the following:

- Sample integrity
- Sensitivity
- Blank analyses
- Spike recoveries
- Duplicate recoveries
- Completeness

The following is a discussion of the QC analyses performed with the site samples and any potential data limitations associated with the results of analyses.

Sample Preservation and Holding Times

Maximum holding times and sample preservation guidelines are established for each method to reduce the chance of generating results that are not representative of the original sample due to changes in analyte concentration. Adequate sample preservation is documented on chain-of-custody records for all samples.

Most sample preparation and analytical steps were performed within specified holding times; however, all field sample nitrate analyses occurred six to eleven days after collection. The QAPP-specified holding time for nitrate in soil is 48 hours. Reported results for nitrate in all samples (including equipment rinsate blanks) are, therefore, qualified estimated with a likely low bias (UJL or JL) due to the holding time exceedances.

Sensitivity

The following reporting limits for the non-detected analytes are greater than QAPP specifications:

- Bicarbonate alkalinity result in sample P-SB-11-11-12
- Carbonate alkalinity results in samples P-SB-01-3-5, P-SB-01-10-12, P-SB-02-5-7, P-SB-02-8-10, P-SB-03-6-8, P-SB-03-10-12, P-SB-04-14-16, P-SB-07-6-8, P-SB-10-5-7, P-SB-10-8-10, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-13-7-8, P-SB-13-10-12, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-8-10, and P-SB-16-12-13-D
- Bromide results in samples P-SB-07-6-8, P-SB-07-8-10, P-SB-10-5-7, P-SB-10-8-10, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-12-9-10, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-11-12, P-SB-16-12-13-D, P-SB-20-10-12, P-SB-22-9-10, and P-SB-22-10-12
- Chloride results in samples P-SB-07-6-8 and P-SB-07-8-10
- Nitrate results in samples P-SB-01-3-5, P-SB-01-10-12, P-SB-02-5-7, P-SB-02-8-10, P-SB-03-6-8, P-SB-03-10-12, P-SB-04-9-11, P-SB-04-14-16, P-SB-07-6-8, P-SB-07-8-10, P-SB-10-5-7, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-12-9-10, P-SB-13-7-8, P-SB-13-10-12, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-8-10, P-SB-17-11-12, P-SB-16-12-13-D, P-SB-20-7-8, P-SB-20-7-8-D, P-SB-20-10-12, P-SB-22-9-10, and P-SB-22-10-12

Elevated sample detection limits (SDLs) for these analytes are due mathematical correction for the moisture content of the soil matrix. It should also be noted that elevated SDLs for bromide and nitrate in samples P-SB-12-9-10, P-SB-17-11-12, P-SB-22-9-10, and P-SB-22-10-12 are due to moisture correction and two-fold dilutions.

Blank Analyses

Blanks are analyzed to help ensure that reported concentrations of analytes of interest are not biased high due to contributions from sources outside the media (or the site) being investigated. The blanks analyzed as part of this event were laboratory method blanks and equipment rinsate blanks.

Laboratory Method Blank—An aliquot of reagent matrix taken through the analytical process as though it were an actual sample. The purpose of method blank analyses is to monitor for laboratory sources of contamination.

Target analytes were not detected in most method blanks indicating that laboratory efforts to control internal sources of contamination were successful for these analytes.

Calcium was detected (46.0 mg/kg) in the method blank associated with analytical batch 26464. Calcium was detected (76.2 mg/kg) in the method blank associated with analytical batch 26486. Calcium was detected (35.2 mg/kg) in the method blank associated with analytical batch 26585. Data interpretation issues are not indicated based on these detections since all concentrations in associated field samples are several orders of magnitude greater than the method blank concentration.

Equipment Rinse Blank—Aliquots of commercially available distilled water that are poured over and/or through decontaminated sample collection equipment. The purpose of equipment blank analyses is to monitor for sources of contamination introduced via sampling equipment.

Sodium was detected (0.226 mg/L) in the equipment blank identified as P-EB-S-07-14-07-1. No data interpretation issues are indicated by this detection since sodium was detected in all associated field samples and the minimum field sample amount is more than five times equipment blank concentrations.

Spike Recoveries

Spiked samples are samples into which known amounts of analytes of interest have been added. Spike recoveries can be used to assess measurement accuracy. Laboratory control sample (LCS) and matrix spike (MS) analyses were included in the QC effort associated with the samples collected as part of this event.

Laboratory Control Samples—Target analytes are spiked at known concentrations into analyte-free matrix and processed (prepared and analyzed) with the project samples. This type of spiked sample is analyzed to assess the preparatory and analytical control of the laboratory in the absence of matrix effects.

Most LCS recoveries fall within QAPP-defined limits indicating that measurement control was adequate at the time of sample analyses.

Recoveries of calcium (132% and 129%) are greater than QAPP-specified control limits (80-120%) in the LCS/LCSD associated with analytical batch 26486. Reported results for calcium in associated samples P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, and P-SB-12-9-10 may include a high bias due to inadequate laboratory measurement control and are qualified appropriately (JH).

Matrix Spikes—A matrix spike (MS) sample is a field sample that is spiked at known concentrations with target analytes. Both spiked and un-spiked aliquots of this sample are analyzed. This type of spiked sample is analyzed to assess matrix effects for the specific sites associated with the investigation as well as on the preparatory and analytical procedures.

Sample P-SB-04-14-16 was analyzed as an MS/MSD pair for barium, iron, calcium, sodium, magnesium, and potassium. At least one recovery for each analyte is outside of QAPP-defined acceptance criteria in these analyses. No data interpretation issues are indicated for calcium, iron, magnesium, potassium, and sodium because the concentrations of these analytes in the un-spiked analysis of sample P-SB-04-14-16 is more than four times the spiking concentration. Recoveries of barium are indicative of a high bias due to matrix interferences. Therefore, the result for barium in sample P-SB-04-14-16 is qualified as estimated with a high bias (JH).

Sample P-SB-11-11-12 was analyzed as MS/MSD pairs for metals. Recoveries of all metals are greater than QAPP-defined control limits. No data interpretation issues are indicated for calcium, iron, magnesium, potassium, and sodium because the concentrations of these analytes in the un-spiked analysis of sample P-SB-04-14-16 is more than four times the spiking concentration. Recoveries of barium are indicative of a high bias due to matrix interferences. Therefore, the result for barium in sample P-SB-11-11-12 is qualified as estimated with a high bias (JH).

Sample P-SB-20-10-12 was analyzed as MS/MSD pairs for metals. At least one recovery for each analyte is outside of QAPP-defined acceptance criteria in these analyses. No data interpretation issues are indicated for calcium, iron, magnesium, potassium, and sodium because the concentrations of these analytes in the un-spiked analysis of sample P-SB-20-10-12 is more than four times the spiking concentration. Recoveries of barium are indicative of a high bias due to matrix interferences. Therefore, the result for barium in sample P-SB-20-10-12 is qualified as estimated with a high bias (JH).

Samples P-SB-07-6-8 and P-SB-11-11-12 were analyzed as MS/MSD pairs for bromide, chloride, nitrate, and sulfate. All recoveries are within acceptance criteria and data are not qualified based on these results.

Duplicate Sample Analyses

Measurement precision can be estimated by calculating the relative percent difference (RPD) between recoveries of the corresponding duplicate samples. The analysis of duplicate LCS analyses (LCSD), duplicate MS analyses (MSD), laboratory duplicates, and field duplicates were included in the QC effort associated with the samples collected in this event.

Laboratory Control Sample Duplicates—A laboratory control sample duplicate is a second laboratory-spiked aliquot of a blank matrix. LCS/LCSD pairs provide an indication of measurement variability in sample preparation and analysis in the absence of potential matrix effects. LCS/LCSD pairs are reported in association with metals analytical as well as anion analyses.

All reported RPD values fall within laboratory-specified limits indicating adequate precision in the absence of potential matrix interferences.

Matrix Spike Duplicates—A matrix spike duplicate is a second spiked aliquot of a single field sample. The matrix spike/matrix spike duplicate (MS/MSD) pairs provide an indication of measurement variability in sample preparation and analysis given the presence of matrix effects.

Most reported RPD values for MS/MSD pairs are within laboratory-derived limits indicating adequate precision in the presence of potential matrix interferences.

The reported RPD value associated with barium in MS/MSD analyses of sample P-SB-04-14-16 is greater than QAPP-specified limits. This exceedance is indicative of more variability than targeted for barium in this sample. The reported concentration of barium in sample P-SB-04-14-16 is qualified as estimated with a high bias (JH) based on this elevated RPD as well as high barium MS/MSD recoveries.

Laboratory Duplicates—A laboratory duplicate is an analysis of a field sample initiated in the laboratory to satisfy a method, procedural, or policy requirement. The client does not request laboratory duplicate analyses and a separate sample is not collected. Laboratory duplicate pairs provide an added indication of measurement variability in sample preparation and analysis as well as sample collection procedures given the presence of potential matrix effects.

Samples P-SB-04-14-16 and P-SB-20-10-12 were analyzed as laboratory duplicates for anions. Sample P-SB-11-11-12 was analyzed as a laboratory duplicate for pH, moisture content, conductivity, bromide, nitrate, and sulfate. Sample P-SB-02-8-10 was analyzed as a laboratory duplicate for moisture content. Samples P-SB-01-3-5, P-SB-01-3-5, P-SB-10-8-10, P-SB-13-7-8, and P-SB-20-10-12 were analyzed as laboratory duplicates for conductivity. Samples P-SB-16-10-11 and P-SB-20-10-12 were analyzed as laboratory duplicates for pH. Reported RPD values are within QAPP-specified limits indicating adequate precision in the presence of potential matrix interferences for these analyses.

Sample P-SB-11-11-12 was analyzed as a laboratory duplicate for alkalinity. Target analytes were not detected in either analysis and RPD values are not reported. Data are not qualified based on these results.

The reported RPD value for bicarbonate alkalinity in laboratory duplicate analyses of sample P-SB-13-7-8 is within acceptance criteria and data are not qualified based on this result.

Reported RPD values for bicarbonate alkalinity in samples P-SB-04-14-16 and P-SB-10-8-10 are greater than QAPP-specified limits. These results are indicative of excessive variability for bicarbonate alkalinity in these samples; therefore, reported concentrations of bicarbonate alkalinity in samples P-SB-04-14-16 and P-SB-10-8-10 are qualified as estimated (J).

The reported RPD for chloride in the laboratory duplicate analysis of sample P-SB-11-11-12 is greater than QAPP-specified limits. This result is indicative of excessive

variability for chloride in this sample; therefore, the reported concentration of chloride in sample P-SB-11-11-12 is qualified as estimated (J).

Sample P-SB-17-11-12 was analyzed as a laboratory duplicate for alkalinity. The reported RPD value for carbonate alkalinity is within QAPP-defined limits and data are not qualified based on this result. The reported RPD for bicarbonate alkalinity, however, is greater than QAPP-specified control limits. This result is indicative of excessive variability for bicarbonate alkalinity in this sample; therefore, the reported concentration of bicarbonate alkalinity in sample P-SB-17-11-12 is qualified as estimated (J).

Reported RPD values for bicarbonate alkalinity and carbonate alkalinity in laboratory duplicate analyses of sample P-SB-20-10-12 are greater than acceptable tolerances. These results are indicative of excessive variability for bicarbonate alkalinity and carbonate alkalinity in this sample; therefore, reported concentrations of bicarbonate alkalinity and carbonate alkalinity in sample P-SB-20-10-12 are qualified as estimated (J).

Field Duplicates—A field duplicate is a second field sample taken as close in space and time as another sample. Field duplicate pairs provide an indication of measurement variability in sample preparation and analysis as well as sample collection procedures given the presence of potential matrix effects.

Samples P-SB-16-12-13 and P-SB-20-7-8 were submitted as a field duplicates. Calculated RPD values are presented in Tables 2 and 3.

RPD values for barium, calcium, and sulfate are outside QAPP-defined limits in field duplicate analyses of sample P-SB-16-12-13 indicating excessive variability for these analytes. Reported concentrations of barium, calcium, and sulfate are qualified as estimated (J) in sample P-SB-16-12-13 and P-SB-16-12-13-D based on these field duplicate results.

The RPD value for barium is outside QAPP-defined limits in field duplicate analyses of sample P-SB-20-7-8 indicating excessive variability for this analyte. The reported concentration of barium is qualified as estimated (J) in sample P-SB-20-7-8 and P-SB-20-7-8-D based on this field duplicate result.

Completeness

All submitted samples were analyzed for all requested analytes. No results are rejected. Therefore, completeness for both the field and laboratory efforts is calculated to be 100%. The QAPP-specified field completeness objective of 90% is met. The laboratory completeness objective of 95% is also met for this event.

Other Issues

All metals duplicate analyses of field samples reported in the five work orders evaluated to generate this report result in RPD values for barium that exceed QAPP-specified limits. These results are indicative of a likely site-wide matrix interference with barium recoveries. Therefore, all barium results in all field samples are qualified as estimated based on the repeated indications of excessive variability for this analyte.

Conclusions

QC data associated with laboratory measurements indicate that measurement data are defensible and that measurement data reliability is generally within expected limits of sampling and analytical error given the data interpretation issues identified in this evaluation.

The data user is advised of the following specific issues:

- Reported results for nitrate in all samples (including equipment rinsate blanks) include a low bias due to holding time exceedances.
- The non-detected result for bicarbonate alkalinity in sample P-SB-11-11-12 is associated with an SDL that is greater than the QAPP-required reporting limit.
- Non-detected results for carbonate alkalinity in samples P-SB-01-3-5, P-SB-01-10-12, P-SB-02-5-7, P-SB-02-8-10, P-SB-03-6-8, P-SB-03-10-12, P-SB-04-14-16, P-SB-07-6-8, P-SB-10-5-7, P-SB-10-8-10, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-13-7-8, P-SB-13-10-12, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-8-10, and P-SB-16-12-13-D are associated with SDLs that are greater than QAPP-required reporting limits.
- Non-detected results for bromide in samples P-SB-07-6-8, P-SB-07-8-10, P-SB-10-5-7, P-SB-10-8-10, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-12-9-10, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-11-12, P-SB-16-12-13-D, P-SB-20-10-12, P-SB-22-9-10, and P-SB-22-10-12 are associated with SDLs that are greater than QAPP-required reporting limits.
- Non-detected results for chloride in samples P-SB-07-6-8 and P-SB-07-8-10 are associated with SDLs that are greater than QAPP-required reporting limits.
- Non-detected results for nitrate in samples P-SB-01-3-5, P-SB-01-10-12, P-SB-02-5-7, P-SB-02-8-10, P-SB-03-6-8, P-SB-03-10-12, P-SB-04-9-11, P-SB-04-14-16, P-SB-07-6-8, P-SB-07-8-10, P-SB-10-5-7, P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, P-SB-12-9-10, P-SB-13-7-8, P-SB-13-10-12, P-SB-16-10-11, P-SB-16-12-13, P-SB-17-8-10, P-SB-17-11-12, P-SB-16-12-13-D, P-SB-20-7-8, P-SB-20-7-8-D, P-SB-20-10-12, P-SB-22-9-10, and P-SB-22-10-12 are associated with SDLs that are greater than QAPP-required reporting limits.

- Reported results for calcium in samples P-SB-11-8-9, P-SB-11-11-12, P-SB-12-7-8, and P-SB-12-9-10 may include a high bias based on high LCS/LCSD recoveries.
- Results for barium in samples P-SB-04-14-16, P-SB-11-11-12, and P-SB-20-10-12 are biased high based on MS/MSD recoveries.
- The reported concentration of barium in sample P-SB-04-14-16 includes excessive variability based on elevated MS/MSD RPD values.
- Reported concentrations of bicarbonate alkalinity in samples P-SB-04-14-16, P-SB-10-8-10, and P-SB-17-11-12 include excessive variability based on laboratory duplicate results.
- The reported concentration of chloride in sample P-SB-11-11-12 includes excessive variability based on laboratory duplicate results.
- Reported concentrations of bicarbonate alkalinity and carbonate alkalinity in sample P-SB-20-10-12 include excessive variability based on laboratory duplicate results.
- Reported concentrations of barium, calcium, and sulfate in sample P-SB-16-12-13 and P-SB-16-12-13-D include excessive variability based on field duplicate results.
- The reported concentration of barium in sample P-SB-20-7-8 and P-SB-20-7-8-D includes excessive variability based on field duplicate result.
- A site-wide soil matrix interference with barium precision exists based on results from duplicate analyses of field samples reported in the five work orders evaluated to generate this report.

**Table 1: Cross-Reference of Field Sample Identifications
and Laboratory Identifications**

Sample Identifier	Collection Date	Matrix	Lab Identifier
P-SB-01-3-5	6/28/07	Soil	0707004-01
P-SB-01-10-12	6/28/07	Soil	0707004-02
P-SB-02-5-7	6/28/07	Soil	0707004-03
P-SB-02-8-10	6/28/07	Soil	0707004-04
P-SB-03-6-8	6/28/07	Soil	0707004-05
P-SB-03-10-12	6/28/07	Soil	0707004-06
P-SB-04-9-11	6/28/07	Soil	0707004-07
P-SB-04-14-16	6/28/07	Soil	0707004-08
P-SB-07-6-8	6/30/07	Soil	0707015-01
P-SB-07-8-10	6/30/07	Soil	0707015-02
P-SB-10-5-7	7/1/07	Soil	0707015-03
P-SB-10-8-10	7/1/07	Soil	0707015-04
P-SB-11-8-9	7/2/07	Soil	0707030-01
P-SB-11-11-12	7/2/07	Soil	0707030-02
P-SB-12-7-8	7/5/07	Soil	0707030-03
P-SB-12-9-10	7/5/07	Soil	0707030-04
P-SB-13-7-8	7/12/07	Soil	0707084-01
P-SB-13-10-12	7/12/07	Soil	0707084-02
P-SB-16-10-11	7/12/07	Soil	0707084-03
P-SB-16-12-13	7/12/07	Soil	0707084-04
P-SB-17-8-10	7/13/07	Soil	0707084-05
P-SB-17-11-12	7/13/07	Soil	0707084-06
P-EB-S-07-13-01-1	7/13/07	Water	0707084-07
P-SB-16-12-13-D	7/12/07	Soil	0707084-08
P-SB-20-7-8	7/14/07	Soil	0707095-01
P-SB-20-7-8-D	7/14/07	Soil	0707095-02
P-SB-20-10-12	7/14/07	Soil	0707095-03
P-SB-22-9-10	7/14/07	Soil	0707095-04
P-SB-22-10-12	7/14/07	Soil	0707095-05
P-EB-S-07-14-07-1	7/14/07	Water	0707095-06

Table 2: Calculated RPD Values for Field Duplicate Analyses of Sample P-SB-16-12-13

Analyte	Results		Units	RPD
	P-SB-16-12-13	P-SB-16-12-13-D		
Barium	272	1470	mg/kg	138
Calcium	50900	123000	mg/kg	83
Iron	15800	14800	mg/kg	6.5
Magnesium	6040	6400	mg/kg	5.8
Potassium	9590	9200	mg/kg	4.2
Sodium	3690	3760	mg/kg	1.9
Bicarbonate Alkalinity	113	117	mg/kg	3.5
Chloride	2510	2520	mg/kg	0.40
Sulfate	330	428	mg/kg	26
pH	7.31	7.38	pH Units	0.95
Moisture	18.6	18.7	wt %	0.54
Specific Conductance	4520	4140	µmhos/cm	8.8

Bold font indicates an RPD value that is greater than expected.
 RPD Relative Percent Difference

Table 3: Calculated RPD Values for Field Duplicate Analyses of Sample P-SB-20-7-8

Analyte	Results		Units	RPD
	P-SB-20-7-8	P-SB-20-7-8-D		
Barium	179	216	mg/kg	26
Calcium	20700	22200	mg/kg	7.0
Iron	18100	18000	mg/kg	0.55
Magnesium	6420	6320	mg/kg	1.6
Potassium	5820	5640	mg/kg	3.1
Sodium	7400	7290	mg/kg	1.5
Bicarbonate Alkalinity	213	209	mg/kg	1.9
Carbonate Alkalinity	134	110	mg/kg	19.6
Bromide	10.3	11.3	mg/kg	9.3
Chloride	4720	5190	mg/kg	9.5
Sulfate	3330	3910	mg/kg	16
pH	8.00	7.81	pH Units	2.4
Moisture	21.0	21.4	wt %	1.9
Specific Conductance	9010	9560	µmhos/cm	5.9

Bold font indicates an RPD value that is greater than expected.
 RPD Relative Percent Difference

Attachment A
Petronila Creek Data Evaluation
Review Checklists

Analytical Data Review / Validation Checklist

Date of Review: 8/1/2007 Work Order: 0707004
 Reviewed By: Steve Miller Analytical Method: 6020; 310.1; 9056; 9045C; D2216;
 Agron 10-2.3
 Client/Project: Petronila GW Investigation Matrix: Soil
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller 8.1.07*

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	No	Nitrate HT = 48 hours. All samples analyzed 11 days after collection.
3. Are results reported for all target analytes, with no additional analytes?	Yes	Hydroxide Alkalinity is non-target - Alkalinity requested on chain-of-custody.
4. Was the analytical method followed?	Yes	
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	No	NDs for carbonate alkalinity and nitrate have SDL > RL due to moisture correction.
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	Conductivity batch has LCS only - no LCSD.
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-SB-04-14-16 for Cations.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Not Applicable	FD not reported in this WO.
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	Yes	
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	No	Ba, Ca, Fe, Mg, K, and Na out.
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	No	See LRC and Case Narrative.
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	No	Duplicates for bromide, nitrate, sulfate, chloride, moisture, conductivity within limits. Duplicate for alkalinity not within limits.

Analytical Data Review / Validation Checklist

Date of Review: 8/1/2007 Work Order: 0707015
 Reviewed By: Steve Miller Analytical Method: 6020; 310.1; 9056; 9045C; D2216;
 Agron 10-2.3
 Client/Project: Petronila GW Investigation Matrix: Soil
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller 8.1.07*

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	No	Nitrate HT = 48 hours. Samples analyzed 8-9 days after collection.
3. Are results reported for all target analytes, with no additional analytes?	Yes	Hydroxide Alkalinity is non-target - Alkalinity requested on chain-of-custody form.
4. Was the analytical method followed?	Yes	
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	No	NDs for carbonate alkalinity, bromide, chloride, nitrate have SDLs > RLs due to moisture correction.
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	Conductivity batch has LCS only - no LCSD.
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-SB-07-6-8 for anions.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Not Applicable	FD not reported in this WO.
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	No	Ca detected in MB.
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	Yes	
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	No	See LRC and Case Narrative.
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	No	Duplicate for conductivity within limits. Duplicate for alkalinity not within limits.

Analytical Data Review / Validation Checklist

Date of Review: 8/1/2007 Work Order: 0707030
 Reviewed By: Steve Miller Analytical Method: 6020; 310.1; 9056; 9045C; D2216;
 Agron 10-2.3
 Client/Project: Petronila GW Investigation Matrix: Soil
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Shiller 8.1.07*

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	No	Nitrate HT = 48 hours. All samples analyzed either 6 or 9 days after collection.
3. Are results reported for all target analytes, with no additional analytes?	Yes	Hydroxide alkalinity is non-target - Alkalinity requested on chain-of-custody.
4. Was the analytical method followed?	Yes	
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	No	NDs for bicarbonate alkalinity, carbonate alkalinity, bromide, nitrate have SDLs>RLs due to moisture content (P-SB-12-9-10 also @ 2X dil'n for anions).
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	Alkalinity and conductivity batches have LCS only - no LCSD.
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-SB-11-11-12 for Ba, Na, Fe, Ca, K, Mg, anions.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Not Applicable	FD not reported in this WO.
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	No	Calcium detected.
14. Are LCS/LCSD recoveries and RPDs within limits?	No	Calcium recoveries high.
15. Are MS/MSD recoveries and RPDs within limits?	No	Ba, Na, Fe, Ca, Mg, K out.
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	No	See LRC and Case Narrative.
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	No	Duplicates for sulfate, pH, moisture, conductivity within limits. Duplicate for chloride not within limits.

Analytical Data Review / Validation Checklist

Date of Review: 8/1/2007 Work Order: 0707084
 Reviewed By: Steve Miller Analytical Method: 6020; 310.1; 9056; 9045C; D2216;
 Agron 10-2.3
 Client/Project: Petronila GW Investigation Matrix: Soil
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller 8.1.07*

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	No	Nitrate HT = 48 hours. Samples analyzed 7-8 days after collection.
3. Are results reported for all target analytes, with no additional analytes?	Yes	Hydroxide alkalinity is non-target - Alkalinity requested on chain-of-custody.
4. Was the analytical method followed?	Yes	
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	No	NDs for carbonate alkalinity, bromide, nitrate have SDLs > RLs due to moisture correction (P-SB-17-11-12 @ 2X dil'n for bromide and nitrate).
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	Conductivity and alkalinity batches have LCS only - no LCSD.
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-EB-S-07-13-01-1 for anions.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Yes	P-SB-16-12-13-D submitted as PD of P-SB-16-12-13.
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	Yes	
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	Yes	
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	No	See LRC and Case Narrative.
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	No	Duplicates for pH and conductivity within limits. Duplicates for alkalinity not within limits.

Analytical Data Review / Validation Checklist

Date of Review: 8/2/2007 Work Order: 0707095
 Reviewed By: Steve Miller Analytical Method: 6020; 310.1; 9056; 9045C; D2216;
 Agron 10-2.3
 Client/Project: Petronila GW Investigation Matrix: Soil
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller* 8.2.07

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	No	Nitrate HT = 48 hours. All field samples analyzed 6 days after collection.
3. Are results reported for all target analytes, with no additional analytes?	Yes	Hydroxide alkalinity is non-target - Alkalinity requested on chain-of-custody form.
4. Was the analytical method followed?	Yes	
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	No	NDs for bromide and nitrate have SDL > RL due to moisture correction. P-SB-22-9-10 and P-SB-22-10-12 @ 2X dil'n.
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	Alkalinity and conductivity batches have LCS only - no LCSD.
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-SB-20-10-12 for cations, anions.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Yes	FD of P-SB-20-7-8 submitted.
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	No	Ca detected.
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	No	Cations, nitrate out.
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	No	See LRC and Case Narrative.
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	Yes	Duplicate for alkalinity out. Na detected in equipment blank.

Background

Thirty-six groundwater samples, three field duplicate samples, and two equipment rinsate blanks were collected on October 2, 3, 4, and 25, 2007 at the Petronila Creek site. Data were generated for these samples by DHL Analytical in Round Rock, Texas for analyses by the following methods:

- Alkalinity by Standard Method 2320 B
- Barium, calcium, iron, magnesium, potassium, and sodium by SW846 Method 6020
- pH by Standard Method 4500-H+B
- Bromide, chloride, nitrate, and sulfate (anions) by USEPA Method 300.0
- Specific Conductance by Standard Method 2540 C
- Total Dissolved Solids (TDS) by Standard Method 2540 C

TRC Quality Assurance (QA) staff reviewed resultant data on October 18, 2007 and November 9, 2007. Four data packages were reviewed to generate this document. Sample identifiers cross-referenced to laboratory identifications are presented in Table 1. Data were reviewed for compliance with the criteria presented in *Investigations of Increased Salinity Along Petronila Creek (Segment 2204) Quality Assurance Project Plan* (Railroad Commission of Texas, February 1, 2007) (the QAPP). Items reviewed during the data validation process included the following:

- Sample integrity
- Sensitivity
- Blank analyses
- Spike recoveries
- Duplicate recoveries
- Completeness

The following is a discussion of the QC analyses performed with the site samples and any potential data limitations associated with the results of analyses.

Sample Preservation and Holding Times

Maximum holding times and sample preservation guidelines are established for each method to reduce the chance of generating results that are not representative of the original sample due to changes in analyte concentration. Adequate sample preservation is documented on chain-of-custody records for all samples. It should also be noted that the case narrative states “Nitric acid was added to the metals fraction for sample P-MW-05 at DHL analytical.”

All sample preparation and analytical steps were performed within specified holding times.

Sensitivity

Iron reporting limits in samples P-MW-15 and PMW-07 are greater than QAPP specifications. Elevated sample detection limits (SDLs) for iron in these samples are due to ten-fold dilutions.

Blank Analyses

Blanks are analyzed to help ensure that reported concentrations of analytes of interest are not biased high due to contributions from sources outside the media (or the site) being investigated. The blanks analyzed as part of this event were laboratory method blanks and equipment rinsate blanks.

Laboratory Method Blank—An aliquot of reagent matrix taken through the analytical process as though it were an actual sample. The purpose of method blank analyses is to monitor for laboratory sources of contamination.

Target analytes were not detected in most method blanks indicating that laboratory efforts to control internal sources of contamination were successful. The following exception was identified:

- Calcium was detected (0.390 mg/L) in the method blank associated with analytical batch 27734. Since all reported concentrations of cadmium in reported samples are more than four hundred times the method blank concentration, data are not qualified based on these results.

Equipment Rinsate Blank—Aliquots of commercially available distilled water that are poured over and/or through decontaminated sample collection equipment. The purpose of equipment blank analyses is to monitor for sources of contamination introduced via sampling equipment.

Sodium (0.144 mg/L) and chloride (0.380 mg/L) were detected in the equipment blank identified as P-EB-W-10-04-07-1. No data interpretation issues are indicated since field sample sodium concentrations are more than 1000 times and chloride concentrations are more than 700 times the equipment blank concentration.

Calcium (0.184 mg/L) and sodium (0.144 mg/L) were detected in the equipment blank identified as P-EB-W-10-04-07-2. No data interpretation issues are indicated since field sample calcium concentrations are more than 2000 times and sodium concentrations are more than 1000 times the equipment blank concentration.

Spike Recoveries

Spiked samples are samples into which known amounts of analytes of interest have been added. Spike recoveries can be used to assess measurement accuracy. Laboratory

control sample (LCS) and matrix spike (MS) analyses were included in the QC effort associated with the samples collected as part of this event.

Laboratory Control Samples—Target analytes are spiked at known concentrations into analyte-free matrix and processed (prepared and analyzed) with the project samples. This type of spiked sample is analyzed to assess the preparatory and analytical control of the laboratory in the absence of matrix effects.

All LCS recoveries fall within QAPP-defined limits indicating that measurement control was adequate at the time of sample analyses.

Matrix Spikes—A matrix spike (MS) sample is a field sample that is spiked at known concentrations with target analytes. Both spiked and un-spiked aliquots of this sample are analyzed. This type of spiked sample is analyzed to assess matrix effects for the specific sites associated with the investigation as well as on the preparatory and analytical procedures.

Sample P-MW-11 was analyzed as an MS/MSD pair for bromide, nitrate, chloride, and sulfate. All recoveries are within control limits and data are not qualified based on these results.

Sample P-MW-13 was analyzed as an MS/MSD pair for metals. Recoveries of barium and iron are within QAPP-specified acceptance criteria. Recovery of potassium is low in the MS analysis and within limits in the MSD analysis. Data are not qualified based on the barium, iron, and potassium results because at least one recovery is within control limits. All recoveries of calcium, magnesium, and sodium are outside of QAPP-defined limits; however, concentrations of these analytes in the un-spiked analysis of sample P-MW-13 are more than four times the spiking concentration and data are not qualified based on these results.

Sample P-MW-13 was also analyzed as an MS/MSD pair for anions. Recoveries of bromide, nitrate, and sulfate are within QAPP-specified limits and data are not qualified based on these results. Recoveries of chloride (both 114%) are greater than specified acceptance criteria (90-110%). Therefore, the reported concentration of chloride in the un-spiked analysis of sample P-MW-13 is qualified as estimated with a likely high bias (JH).

Sample P-MW-05 was analyzed as an MS/MSD pair for barium, potassium, iron, calcium, sodium, and magnesium. Recoveries of barium and iron are within QAPP-defined acceptance criteria in these analyses. Recoveries of the remaining analytes are outside of control limits. No data interpretation issues are indicated for potassium, calcium, magnesium, and sodium because the concentrations of these analytes in the un-spiked analysis of sample P-MW-05 are more than four times the spiking concentration.

Sample P-MW-05 was also analyzed as an MS/MSD pair for bromide nitrate, and sulfate in analytical batch R34008. All recoveries of bromide and nitrate are within QAPP-

specified limits. One recovery of sulfate is within limits and the other is greater than acceptance criteria. Data are not qualified since at least one recovery is within acceptable limits.

Sample P-MW-05 was analyzed as an MS/MSD pair for chloride and sulfate in analytical batch R34027. All recoveries are within control limits and data are not qualified based on these results.

Sample P-MW-09 was analyzed as an MS/MSD pair for bromide and nitrate in analytical batch R34008. MS recoveries of these analytes are below acceptable limits while MSD recoveries are both within limits. Data are not qualified since at least one recovery for each anion is within acceptable limits.

Sample P-MW-09 was also analyzed as an MS/MSD pair for chloride and sulfate in analytical batch R34027. All recoveries are within control limits and data are not qualified based on these results.

Sample P-CS-02 was analyzed as an MS/MSD pair for metals, bromide, nitrate, chloride, and sulfate. Recoveries of calcium and sodium are outside of QAPP-specified limits. No data interpretation issues are indicated because the concentrations of these analytes in the un-spiked analysis of sample P-CS-02 are more than four times the spiking concentration.

Sample P-CS-33 was analyzed as an MS/MSD pair for chloride and sulfate. All recoveries are greater than acceptance criteria. Therefore, reported concentrations of chloride and sulfate in the un-spiked analysis of sample P-CS-33 are qualified as estimated with a likely high bias (JH).

Sample P-MW-03 was analyzed as an MS/MSD pair for chloride, sulfate, and bromide. Recoveries of sulfate and bromide are less than QAPP-specified limits. Reported concentrations of sulfate and bromide in the un-spiked analysis of sample P-MW-03 are flagged as estimated with a likely low bias (JL).

Duplicate Sample Analyses

Measurement precision can be estimated by calculating the relative percent difference (RPD) between recoveries of the corresponding duplicate samples. The analysis of duplicate LCS analyses (LCSD), duplicate MS analyses (MSD), laboratory duplicates, and field duplicates were included in the QC effort associated with the samples collected in this event.

Laboratory Control Sample Duplicates—A laboratory control sample duplicate is a second laboratory-spiked aliquot of a blank matrix. LCS/LCSD pairs provide an indication of measurement variability in sample preparation and analysis in the absence of potential matrix effects. LCS/LCSD pairs are reported in association with metals analytical as well as anion analyses.

All reported RPD values fall within laboratory-specified limits indicating adequate precision in the absence of potential matrix interferences.

Matrix Spike Duplicates—A matrix spike duplicate is a second spiked aliquot of a single field sample. The matrix spike/matrix spike duplicate (MS/MSD) pairs provide an indication of measurement variability in sample preparation and analysis given the presence of matrix effects.

Most reported RPD values for MS/MSD pairs are within laboratory-derived limits indicating adequate precision in the presence of potential matrix interferences.

The reported RPD value associated with bromide in MS/MSD analyses of sample P-MW-09 is greater than QAPP-specified limits. This exceedance is indicative of more variability than targeted for bromide in this sample. The reported concentration of bromide in sample P-MW-09 is qualified as estimated (J) based on this elevated RPD.

Laboratory Duplicates—A laboratory duplicate is an analysis of a field sample initiated in the laboratory to satisfy a method, procedural, or policy requirement. The client does not request laboratory duplicate analyses and a separate sample is not collected. Laboratory duplicate pairs provide an added indication of measurement variability in sample preparation and analysis as well as sample collection procedures given the presence of potential matrix effects.

Sample P-MW-11 was analyzed as laboratory duplicates for pH, specific conductance, TDS, and alkalinity. Sample P-MW-13 was analyzed as laboratory duplicates for pH, specific conductance, TDS, and alkalinity. Sample P-MW-05 was analyzed as laboratory duplicates for pH, specific conductance, TDS, and alkalinity. Sample P-MW-09 was analyzed as a laboratory duplicate for alkalinity. Reported RPD values are within QAPP-specified limits indicating adequate precision in the presence of potential matrix interferences for these analyses.

Field Duplicates—A field duplicate is a second field sample taken as close in space and time as another sample. Field duplicate pairs provide an indication of measurement variability in sample preparation and analysis as well as sample collection procedures given the presence of potential matrix effects.

Samples P-MW-06, P-MW-14, and P-D-09 were submitted as field duplicates. Calculated RPD values are presented in Tables 2, 3, and 4.

The calculated RPD value for sodium is outside QAPP-defined limits in field duplicate analyses of sample P-MW-06 indicating excessive variability for this analyte. Reported concentrations of sodium are qualified as estimated (J) in samples P-MW-06 and P-MW-06-D based on field duplicate results for P-MW-06.

The calculated RPD value for bromide is outside QAPP-defined limits in field duplicate analyses of sample P-D-09 indicating excessive variability for this analyte. Reported

concentrations of bromide are qualified as estimated (J) in samples P-D-09 and P-D-09-D based on these field duplicate results.

Data are not qualified based on field duplicate results for sample P-MW-14.

Completeness

All submitted samples were analyzed for all requested analytes. No results are rejected. Therefore, completeness for both the field and laboratory efforts is calculated to be 100%. The QAPP-specified field completeness objective of 90% is met. The laboratory completeness objective of 95% is also met for this event.

Other Issues

Reported analytical methods for alkalinity, pH, specific conductivity, and total dissolved solids in the water matrix are not those specified in QAPP Table A7.1 and required by QAPP Section B.4. Methods specified in the QAPP are no longer approved by the TCEQ. The laboratory is running the most recently approved methods and no longer uses the older methods. Data are not qualified based on this finding; however, method citations in the QAPP should be updated.

Conclusions

QC data associated with laboratory measurements indicate that measurement data are defensible and that measurement data reliability is generally within expected limits of sampling and analytical error given the data interpretation issues identified in this evaluation.

The data user is advised of the following specific issues:

- The reported concentration of chloride in the un-spiked analysis of sample P-MW-13 is qualified as estimated with a likely high bias (JH), based on MS/MSD results
- Reported concentrations of chloride and sulfate in sample P-CS-33 are qualified as estimated with a likely high bias (JH) based on elevated MS/MSD recoveries
- Reported concentrations of bromide and sulfate in sample P-MW-03 are flagged as estimated with a low bias (JL) based on low MS/MSD recoveries
- The reported concentration of bromide in sample P-MW-09 is qualified as estimated (J) based on an elevated MS/MSD RPD value
- Reported concentrations of sodium are qualified as estimated (J) in samples P-MW-06 and P-MW-06-D based on field duplicate results for P-MW-06
- Reported concentrations of bromide are qualified as estimated (J) in samples P-D-09 and P-D-09-D based on field duplicate results

**Table 1: Cross-Reference of Field Sample Identifications
and Laboratory Identifications**

Sample Identifier	Collection Date	Matrix	Lab Identifier
P-MW-11	10/2/2007	Water	0710032-01
P-MW-10	10/2/2007	Water	0710032-02
P-MW-12	10/2/2007	Water	0710032-03
P-MW-21	10/2/2007	Water	0710032-04
P-MW-20	10/2/2007	Water	0710032-05
P-MW-22	10/2/2007	Water	0710032-06
P-MW-01	10/2/2007	Water	0710032-07
P-MW-02	10/3/2007	Water	0710047-01
P-D3-MW-27	10/3/2007	Water	0710047-02
P-D2-MW-12	10/3/2007	Water	0710047-03
P-MW-16	10/3/2007	Water	0710047-04
P-MW-13	10/3/2007	Water	0710047-05
P-MW-14	10/3/2007	Water	0710047-06
P-MW-14D	10/3/2007	Water	0710047-07
P-MW-15	10/4/2007	Water	0710062-01
P-MW-19	10/4/2007	Water	0710062-02
P-MW-18	10/4/2007	Water	0710062-03
P-EB-W-10-04-07-1	10/4/2007	Water	0710062-04
P-MW-05	10/4/2007	Water	0710062-05
P-MW-06	10/4/2007	Water	0710062-06
P-MW-06-D	10/4/2007	Water	0710062-07
P-MW-04	10/4/2007	Water	0710062-08
P-MW-07	10/4/2007	Water	0710062-09
P-MW-17	10/4/2007	Water	0710062-10
P-MW-08	10/4/2007	Water	0710062-11
P-MW-09	10/4/2007	Water	0710062-12
P-EB-W-10-04-07-2	10/4/2007	Water	0710062-13
P-CS-06	10/25/2007	Water	0710232-01
P-D-01	10/25/2007	Water	0710232-02
P-D-02	10/25/2007	Water	0710232-03
P-CS-02	10/25/2007	Water	0710232-04
P-D-07	10/25/2007	Water	0710232-05
P-D-06	10/25/2007	Water	0710232-06
P-D-09	10/25/2007	Water	0710232-07
P-D-09-D	10/25/2007	Water	0710232-08
P-CS-14	10/25/2007	Water	0710232-09
P-CS-11	10/25/2007	Water	0710232-10
P-CS-19	10/25/2007	Water	0710232-11
P-CS-25	10/25/2007	Water	0710232-12
P-CS-33	10/25/2007	Water	0710232-13
P-MW-03	10/25/2007	Water	0710232-14

Table 2: Calculated RPD Values for Field Duplicate Analyses of Sample P-MW-06

Analyte	Results		Units	RPD
	P-MW-06	P-MW-06-D		
Barium	0.274	0.270	mg/L	1.5
Calcium	3620	3380	mg/L	6.8
Iron	5.97	6.42	mg/L	7.3
Magnesium	644	662	mg/L	2.8
Potassium	83.4	80.6	mg/L	3.4
Sodium	7340	9830	mg/L	29
Bicarbonate Alkalinity	328	305	mg/L	7.3
Bromide	78.5	77.1	mg/L	1.8
Chloride	23100	22800	mg/L	1.3
Nitrate	1.68	1.79	mg/L	6.3
Sulfate	1300	1170	mg/L	10
pH	6.27	6.16	pH Units	1.8
Specific Conductance	69800	72300	µmhos/cm	3.5
Total Dissolved Solids	42600	42100	mg/L	1.2

Bold font indicates an RPD value that is greater than expected.

RPD Relative Percent Difference

Table 3: Calculated RPD Values for Field Duplicate Analyses of Sample P-MW-14

Analyte	Results		Units	RPD
	P-MW-14	P-MW-14-D		
Barium	0.101	0.105	mg/L	3.9
Calcium	997	948	mg/L	5.0
Iron	6.25	7.29	mg/L	15
Magnesium	156	151	mg/L	3.2
Potassium	18.8	21.3	mg/L	12
Sodium	2870	2940	mg/L	2.4
Bicarbonate Alkalinity	282	287	mg/L	1.8
Bromide	15.2	15.3	mg/L	0.66
Chloride	6320	6310	mg/L	0.16
Nitrate	ND	ND	mg/L	NC
Sulfate	1280	1270	mg/kg	0.78
pH	6.59	6.77	pH Units	2.7
Specific Conductance	19600	19600	µmhos/cm	0
Total Dissolved Solids	14300	14600	mg/L	2.1

NC Not Calculated

ND Not Detected

RPD Relative Percent Difference

Table 4: Calculated RPD Values for Field Duplicate Analyses of Sample P-D-09

Analyte	Results		Units	RPD
	P-D-09	P-D-09-D		
Barium	0.0826	0.0873	mg/L	5.5
Calcium	1190	1170	mg/L	1.7
Iron	0.0524	ND	mg/L	NC
Magnesium	290	296	mg/L	2.0
Potassium	19.8	20.1	mg/L	1.5
Sodium	5600	5830	mg/L	4.0
Bicarbonate Alkalinity	274	275	mg/L	0.36
Bromide	23.2	30.9	mg/L	28
Chloride	9910	9810	mg/L	1.0
Nitrate	7.14	7.03	mg/L	1.6
Sulfate	2790	2770	mg/kg	0.72
pH	7.11	7.27	pH Units	2.2
Specific Conductance	36000	35800	µmhos/cm	0.56
Total Dissolved Solids	21600	21200	mg/L	1.9

NC Not Calculated

ND Not Detected

RPD Relative Percent Difference

Attachment A
Petronila Creek Data Evaluation
Review Checklists

Analytical Data Review / Validation Checklist

Date of Review: 1/16/2008 Work Order: 0710032
 Reviewed By: Steve Miller Analytical Method: 6020; 300.0, 2320B, 4500-H+B,
 2510B, 2540C
 Client/Project: RRC - Petronila Matrix: Water
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller 1/16/08*

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	Yes	
3. Are results reported for all target analytes, with no additional analytes?	Yes	
4. Was the analytical method followed?	No	Using TCEQ-approved methods which are different from QAPP-approved methods.
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	Yes	All NDs associated with SDLs that are less than QAPP specifications.
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-MW-11 for chloride, sulfate, pH, alkalinity, specific conductivity, and TDS.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Not Applicable	
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	Yes	
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	Yes	
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	No	PDS below control limits for calcium - SD within limits.
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	Yes	

Analytical Data Review / Validation Checklist

Date of Review: 1/16/2008 Work Order: 0710047
 Reviewed By: Steve Miller Analytical Method: 6020, 300.0, 2320B, 4500H+B, 2510B, 2540C
 Client/Project: RRC - Petronila Matrix: Water
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller 1/16/08*

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	Yes	
3. Are results reported for all target analytes, with no additional analytes?	Yes	
4. Was the analytical method followed?	No	Using TCEQ-approved methods which are different from QAPP-approved methods.
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	Yes	All NDs associated with SDLs that are less than QAPP specifications.
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-MW-13 for metals, bromide, nitrate, chloride, sulfate, pH, alkalinity
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Yes	P-MW-14
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	Yes	
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	No	High chloride recoveries.
16. Are surrogate recoveries within limits?	Yes	
17. The laboratory did not issue any QCERS?	Yes	
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	Yes	

Analytical Data Review / Validation Checklist

Date of Review: 1/16/2008 Work Order: 0710062
 Reviewed By: Steve Miller Analytical Method: 6020, 300.0, 2320B, 4500-H+B,
 2510E, 2540C
 Client/Project: RRC - Petronilla Matrix: Water
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller* 1/16/08

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	Nitric acid was added to the metals fraction of P-MW-05 at the laboratory.
2. Were hold times met?	Yes	
3. Are results reported for all target analytes, with no additional analytes?	Yes	
4. Was the analytical method followed?	No	Using TCEQ-approved methods which are different from QAPP-approved methods.
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	No	SDLs for ND iron in samples P-MW-15 and P-MW-07 are greater than QAPP specification due to sample dilution.
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-MW-05 for metals, bromide, nitrate, sulfate, chloride. P-MW-09 for chloride and sulfate.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Yes	P-MW-06. Sodium RPD high.
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	Yes	
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	No	Bromide RPD high - P-MW-09.
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	Yes	
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	Yes	

Analytical Data Review / Validation Checklist

Date of Review: 1/16/2008 Work Order: 0710232
 Reviewed By: Steve Miller Analytical Method: 6020, 300.0, 2320B, 4500-H+B,
 2510B, 2540C
 Client/Project: RRC - Petronila Matrix: Water
 Data From: DHL Analytical
 Reviewer's Signature/Date: *Steve Miller 1/16/08*

Question	Answer	Comment
1. Did samples arrive at the laboratory appropriately preserved?	Yes	
2. Were hold times met?	Yes	
3. Are results reported for all target analytes, with no additional analytes?	Yes	
4. Was the analytical method followed?	No	Using TCEQ-approved methods which are different from QAPP-approved methods.
5. Do reported detection limits (or reporting limits) agree with project specifications (QAPP or Work Plan)?	Yes	All NDs associated with SDLs that are less than QAPP specifications.
6. Are results reported for all samples submitted for analysis?	Yes	
7. Were initial and continuing instrument calibration analyses performed? and reported?	Yes	
8. Are results provided for a method blank for each analytical batch?	Yes	
9. Are results provided for a LCS/LCSD pair for each analytical batch?	Yes	
10. Are results provided for a MS/MSD pair for every batch - or are results provided for every 20 field samples?	Yes	P-CS-02 for metals, bromide, nitrate, chloride, sulfate. P-CS-33 for chloride, sulfate, nitrate. P-MW-03 for bromide, chloride and sulfate.
11. Are field duplicate results provided at the project-specified (QAPP or Work Plan) frequency?	Yes	P-D-09. High bromide RPD.
12. Organic Analyses Only: For each field sample (field and QC), are surrogate spike results provided?	Not Applicable	
13. Do method blanks show no detectable concentrations of target analytes?	No	Calcium detected in batch 27734 - no interpretation issues.
14. Are LCS/LCSD recoveries and RPDs within limits?	Yes	
15. Are MS/MSD recoveries and RPDs within limits?	No	Chloride and sulfate recoveries low in P-CS-33. Bromide and sulfate recoveries low in P-MW-03.
16. Are surrogate recoveries within limits?	Not Applicable	
17. The laboratory did not issue any QCERS?	Yes	
18. The analyst did not describe any analytical anomalies?	Yes	
19. No other potential data quality issues were identified?	Yes	